

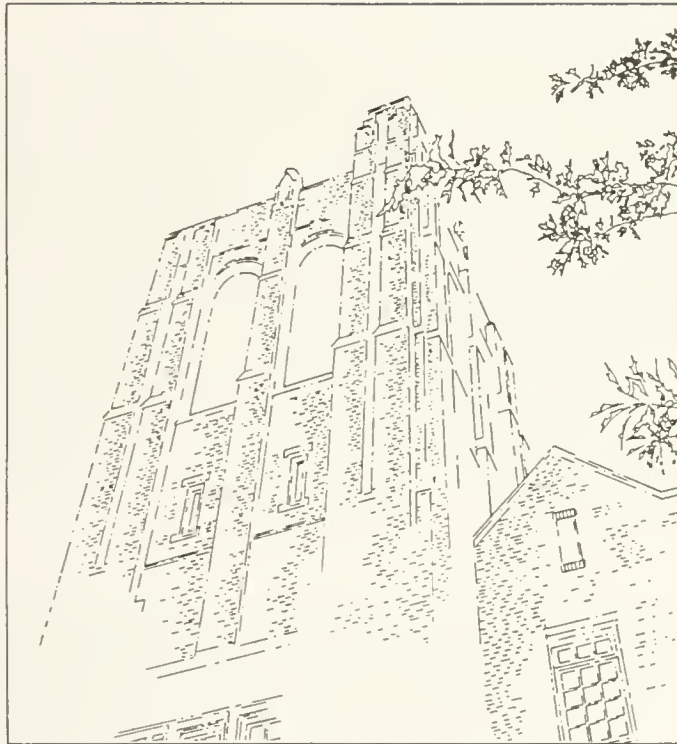
LASALLE

UNIVERSITY



BULLETIN 1994-1995

LA SALLE



LA SALLE UNIVERSITY BULLETIN

LA SALLE UNIVERSITY
Philadelphia, Pennsylvania 19141
215-951-1000

La Salle University does not discriminate against any applicant because of race, color, religion, sex, age, national origin, sexual orientation, marital status, or handicap or disability which does not interfere with performance of essential job functions after reasonable accommodation, if any. Admission is based upon an applicant's qualifications and ability to meet the established requirements for admission and for specific programs. This commitment extends to participation in all educational programs and activities of the University.

ACCREDITATION AND MEMBERSHIPS

La Salle University was chartered in 1863 by the Legislature of the Commonwealth of Pennsylvania and is empowered by that authority to grant academic degrees. It is accredited with the Middle States Association of Colleges and Secondary Schools, the Pennsylvania Department of Education, the Regents of the University of the State of New York, the American Association of Colleges for Teacher Education, the American Chemical Society, the Pennsylvania State Board of Law Examiners, the Council on Social Work Education, and the National League for Nursing.

Member of: American Council on Education, Association of American Colleges, National Collegiate Honors Council, American Assembly of Collegiate Schools of Business, College Entrance Examination Board, American Association of Collegiate Registrars and Admissions Officers, Association of College Admissions Counselors, National Catholic Educational Association, College and University Council of Pennsylvania, Association of Liberal Arts Colleges of Pennsylvania for the Advancement of Teaching, Pennsylvania Catholic Education Association, American Library Association, Urban Studies Association, National Commission on Accrediting, American Catholic Historical Society, Educational Conference of the Brothers of the Christian Schools, National Association for Foreign Student Affairs, National Association of Student Personnel Administrators, Association of College and University Housing Officers, and National Association of College and University Business Officers.

RIGHTS AND PRIVACY ACT PROVISIONS

Each year, La Salle University informs students of the Family Educational Rights and Privacy Act of 1974. This Act was intended to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal or formal hearings.

To fulfill basic requirements for compliance with the Act, each institution must inform each student of his/her right to prevent disclosure of personally identifiable information. Although La Salle does not publish a public directory, the Office of the Registrar, at its discretion, does disclose the following information: Name, address, dates of attendance, class, major field of study, and degree(s) conferred (including dates).

Under the provisions of the Rights and Privacy Act, currently enrolled students may withhold disclosure of such information. To prevent disclosure, written notification must be received by the Office of the Registrar by October 1st in the Fall Semester and February 15th in the Spring Semester. The University will honor each request to withhold any of the categories of information listed above but cannot assume responsibility to contact a student for subsequent permission to release them. Decisions about withholding any information should be made very carefully. Should a student decide to inform the institution not to release any information, any future requests for such information from non-institutional persons or organizations will be refused.

La Salle University assumes that failure to request the withholding of "directory information" indicates approval for disclosure.

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To comply fully with the provisions of the Commonwealth of Pennsylvania's Act 73, the College and University Security Information Act of 1988, La Salle University has available its Crime Statistics Report for 1993, as well as a publication entitled "Safety and Security at La Salle University." Copies of either document may be requested without charge in writing from the News Bureau, La Salle University, Philadelphia, PA 19141.

To comply with Federal Consumer Information Regulations, La Salle makes available upon request a report on job placement statistics and graduation rates. A copy of the 1994 report may be requested in writing from the Vice President for Enrollment Services, La Salle University, Philadelphia, PA 19141.

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A Profile



To Introduce Ourselves . . .

In this short profile we'd like to tell you a few important details about La Salle, one of the country's leading private colleges. Founded in 1863, La Salle is a comprehensive, coeducational university related to the Roman Catholic Church and conducted under the auspices of the Christian Brothers. We invite you get to know us better and to share our pride in over 130 years of educational excellence.

La Salle is one of two institutions of higher education in the East conducted by the Christian Brothers (the other being Manhattan College). The Brothers were founded by St. John Baptist de La Salle in the 17th century. For more than 300 years, the order has been known for dedicated teaching and devotion to students. The spirit of the order carries over to the faculty and administration of today's La Salle, where diverse backgrounds unite to carry out the objectives of the University in an atmosphere of respect for the individual.

We think La Salle is big enough for efficiency yet small enough to stimulate personal contacts between students and teachers. The day division enrolls 3,000 men and women. The average class size is 20 students; there are no lecture sections numbering in the hundreds and no graduate assistants handling basic courses or marking papers for professors who do not know their own students. Yet the University is large enough to offer 50 different degree programs or special concentrations.

La Salle is located in the northwestern portion of Philadelphia on the edge of Germantown, site of a Revolutionary War battle and one of the oldest neighborhoods in Philadelphia. The campus covers nearly 100 acres and includes Belfield, a farm that once belonged to American painter Charles Willson Peale. Entering the campus from one of the busy city streets around it has been described by one visitor as "entering a place of quiet beauty. It's hard to believe you're in a large city." But Philadelphia is a large city, filled with interesting people, places, events, and opportunities. The University is only minutes away from Center City museums, concert halls, restaurants, sporting events, and shopping. And its location in the nation's fourth largest market provides many opportunities for internships, cooperative education assignments, and other work-related experiences that help prepare students for that all-important first job following graduation. La Salle is only two

hours away from Pocono Mountain ski resorts or the boardwalks and beaches of the Jersey shore.

How good is La Salle academically? It's one of America's leading colleges, according to *U.S. News & World Report*, *Barron's*, *Peterson's*, *Money* magazine, and *The New York Times*.

A top academic institution has a talented faculty, good students, and a solid library. A glance at the faculty directory at the end of this catalog will demonstrate the sound academic credentials of La Salle's professors; what it does not show is the dedication to teaching and to students that is the greatest strength of the faculty. About 80% of last year's freshmen graduated in the top 40% of their high school class, but the statistics don't show the many students who entered La Salle with less-than-superb high school records and matured and blossomed in the atmosphere of this University. The Connelly Library is one of the most beautiful, most advanced academic libraries in the country. It has more than 350,000 volumes and offers state-of-the-art computerized information retrieval.

Another measure of La Salle's academic standing: the number of graduates who go on to earn Ph.D. degrees. In a nationwide study of nearly 900 private Baccalaureate institutions, La Salle ranks in the top 4% since 1977 as an originating school for Ph.D.s.

What do the president and publisher of *USA Today*, a U.S. arms control official, president and CEO of Spiegel, dean of the Medical School at the University of Pennsylvania, chief of staff at the U.S. Department of Health and Human Services, president of the Philadelphia Stock Exchange, Pulitzer Prize-winning author and Academy Award nominee for *A Soldier's Story*, drama critic for CBS, dean of the Villanova University Law School, and chief of staff at Massachusetts General Hospital have in common? You guessed it: a La Salle education. Standard & Poor's ranks La Salle 10th among the nation's liberal arts colleges in the number of graduates who are top corporate leaders.

La Salle graduates have distinguished themselves in the nation's best graduate schools, law schools, and medical schools. In recent years, our students have won scholarships or assistantships to top-rated graduate schools, including Harvard, Cor-

To Introduce Ourselves . . .

nell, Stanford, University of Chicago, and University of Virginia. La Salle men and women have earned law degrees from Berkeley, Georgetown, Catholic University, Cornell, Dickinson, Duke University, and the University of Notre Dame.

Since 1977, more than 90% of all students recommended by the University have been admitted into medical schools, including Johns Hopkins, Harvard, Hahnemann, University of Pittsburgh, and University of Pennsylvania. La Salle graduates have won more than 40 Fulbright Scholarships and several Gundacker and Rotary International Fellowships for study abroad, as well as National Science Foundation grants for graduate study at U.S. institutions. La Salle students have also been honored with two of the nation's most prestigious awards: the Marshall and Truman Fellowships.

Many of these graduates participated in the exceptional Honors Program at La Salle. The *Newsletter* of the National Collegiate Honors Council described the program as "a very special sort not available to larger, general universities" and took note of a "really extraordinary record in terms of garnering Fulbright, Danforth, and Marshall scholarships."

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Financial aid is a worrisome but necessary concern for parents. Without it, most students could not attend college today. At La Salle more than 90% of all undergraduates seeking financial assistance receive aid. Here's something to keep in mind: since aid is calculated on a "needs" formula, a student attending a private college may actually be eligible for more aid than would be available if he or she were attending a public or community college with an apparently lower tuition.

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Besides partaking of the Philadelphia cultural scene, La Salle also contributes to it in significant ways. The art columnist for the *Philadelphia Inquirer* has written that La Salle has "the finest college art gallery in the Philadelphia area" and that "one would have to go to Yale, Harvard, or Princeton to find a better one." The summer Music Theatre launched many performers' careers, including actors Pat Cronin, Russell Lieb, and dancer Judith Jamison. Over the years, La Salle has welcomed to the campus as speakers a distinguished array of names, including John F. Kennedy, Alan Paton,

Ralph Ellison, Buckminster Fuller, Joyce Carol Oates, Joseph Papp, Robert Penn Warren, and many others. La Salle and the University of Pennsylvania are the only two Philadelphia-area institutions to bring the Royal Shakespeare Company's Actors-in-Residence program to their students and the community.

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Sports devotees generally think of basketball when they hear the name La Salle, and not without reason. La Salle is one of only ten teams to have won both the NCAA and NIT championships in men's basketball. The men's and women's teams have been ranked among the nation's best in recent years. But basketball is only part of the story. The women's field hockey team won a national title in 1980; its goalie, Diane Moyer, was a part of the 1984 Olympic championship team. Among other past Olympic participants from La Salle are gold medalist swimmer Joe Verdeur, long jumper Ira Davis, and javelin thrower Al Cantello.

Hayman Hall, one of the East's finer athletic facilities, features a collegiate-sized pool, basketball, squash and handball courts, an indoor track, an exercise room, and virtually anything else an athletically-minded student might want. Organized intercollegiate and intramural sports afford students opportunities to participate according to their interests, but there is plenty of unorganized, free recreation as well. There are men's varsity teams in basketball, baseball, swimming, track, cross country, crew, soccer, golf, tennis, and wrestling. Women's teams include basketball, crew, cross country, field hockey, volleyball, tennis, swimming, softball, soccer, and track. Intramural sports such as touch football, volleyball, basketball, indoor soccer, softball, track, swimming, and tennis have men's, women's, and mixed teams.

Over the past several years, La Salle has constructed six tennis courts on the Belfield Estate, a new varsity softball field, an all-weather track, and a state-of-the-art fitness center. These facilities add a new dimension to both recreation and intercollegiate activities at La Salle.

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For those with recreational tastes other than or in addition to athletics, the La Salle Union offers films, plays and concerts in its theater, social events in the ballroom, or a meal or a snack in the Food

Court. Trained administrators in Student Affairs work closely with students and their organizations, sharing ideas and helping students to plan and carry out social and cocurricular activities. They recognize that social life is a vital part of your educational experience at the University, and they will work with you to help you get the most out of your student activities.

Our profile of La Salle is incomplete, but our space and your time are both limited. The Admissions Office cordially invites you to pay us a visit and fill out the rest of the profile through personal experience. Call 215-951-1500 to arrange an appointment.



The People of La Salle

More than buildings, more than books, more than lectures and examinations, education is a matter of people. It's the people who make up La Salle—the students, teachers, and administrators—who give the community its character.

St. La Salle's dedication to teaching is the informing spirit of the University, and you will be conscious of this spirit in the willingness of your professors to give that extra moment of explanation or advice which can mean so much. While many of these men and women are engaged in their own scholarship or research, their primary focus is always the classroom and their basic obligation is to you, the student.

Making the transition between high school and college is never easy, but at La Salle you will find many people who want to help and who understand some of the problems you face perhaps better than you do yourself.

During the summer months preceding the start of classes, you and your parents will be invited to participate in the Pre-College Counseling Program. At this time you will come to the campus for a full day of meetings with the Counseling Center staff, as well as representatives from Financial Aid, Resident Life, Career Planning and Placement, and other areas of the University. During the program you will have a personal interview with a counselor to discuss your educational and career plans, and will meet with an academic advisor who will assist you with your fall roster. In an informal atmosphere of small group discussions, you will also have the opportunity to share your ideas with other freshmen, with upperclassmen who have experienced the same transition, and with faculty members and administrators willing to assist. The overall aim of the summer program is to make your adjustment to college life as pleasant as possible.

In addition to this initial program, the Counseling Center offers counseling services throughout your college years. If you are uncertain of your major or of your career plans, the staff will assist you in making a sound choice based on your interests and capabilities. *Sign-Plus*, a computer-assisted career exploration tool which helps students examine their values, interests, and skills systematically, is available for this purpose. The Center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools and a variety of occupa-

tions. Licensed psychologists are particularly well trained to assist students in overcoming anxiety and depression, interpersonal inadequacies, shyness, low self-esteem, and family conflicts. Besides offering individual counseling, the Center also conducts group sessions on a variety of topics of concern to students. Management of anxiety—particularly test anxiety—assertiveness training, overcoming shyness, self-esteem enhancement, improvement of study skills, and procrastination reduction are but a few of the topics that have been the focus of recent group programs. The sessions have proven popular and effective ways of aiding personal growth. An alcohol and drug program is also part of the Counseling Center's services. The mission of this program is to provide accurate information about psychoactive substances, educate the La Salle community about the realities of alcohol and other drug use, and provide referral and/or treatment for problems associated with abuse.

Being part of a church-related university means you are also part of a community in which people care about one another. Rooted in the commitment to a broad range of human and Christian values held by the University, the Campus Ministry Center plays an important role in maintaining that sense of community by incarnating the belief that ministry is an expression of God acting *with* us, *in* us, and *through* us. In addition to involvement in the planning and celebrating of daily and Sunday liturgies, participating in retreats and days of reflection and prayer, and attending lectures and workshops, you will be invited to develop your sense of Christian commitment by sharing your time and talents through voluntary social involvement in the local community. Supported by the Campus Ministry Center, such service can include working with Philadelphia's homeless, tutoring inmates in prison, working with children in a latch-key program, raising money for and awareness about Covenant House, assisting senior citizens with tax problems, spending your spring break in Appalachia or on a local work project, and helping school children prepare for first reception of the sacraments.

Nor is your physical well-being neglected while you are on campus. A physician is always on call, and a registered nurse is in daily attendance in the dispensary. Medical insurance is available and recommended to all students.

Throughout your college days, the staff of the Career Planning office will be at your service to

help you select a career and assist you in planning job campaigns. This office is sometimes able to assist students in finding part-time or summer jobs related to their career goals.

All in all, you will find the people at La Salle an

important part of your education. Long after you have forgotten painfully memorized facts from a textbook or lecture, you will remember the teachers and students with whom you associated in your college years.



Living at La Salle

When you become part of the community of resident students, you will have greater opportunity for participation in the total collegiate experience. Extracurricular campus life and student activities abound for residents, who also benefit greatly from the convenience and access to academic facilities, student services, and cocurricular programs.

The community of residents is diverse, reflecting the range of backgrounds, personalities, and interests of La Salle's student body. Each residence hall floor and building takes on a character of its own, and the give-and-take of daily life promotes respect and concern for others. The halls are small enough to encourage a spirit of friendship and community.

The Resident Life Staff and the student-run Resident Student Association sponsor a variety of special events, guest speakers, entertainment, and

social and recreational activities. Many University clubs and organizations also sponsor activities in the residence halls and apartments. When combined with the wealth of cultural, historic, entertainment, sports, and educational resources available in the city of Philadelphia, residence life affords students the best combination of a collegiate and metropolitan environment.

Life in a university residence hall is an experience not to be duplicated elsewhere. Living with friends—studying, dining, socializing together—provides you with chances to learn about yourself, refine your ability to get along with and learn from others, and formulate goals and clarify values which are critical for personal success after graduation. At La Salle, many things—staff, students, facilities, programs, and location—blend to offer residents a convenient, meaningful, and rewarding living experience.



Our History

La Salle University was chartered as La Salle College by the Commonwealth of Pennsylvania in 1863. La Salle's founders were a group of Christian Brothers, some diocesan priests, and several Catholic laymen. The school was first located at St. Michael's, one of the oldest parishes in Philadelphia. As the new college grew, it moved first to a Center City site at Juniper and Filbert Streets and then to the old Bouvier mansion at 1240 North Broad Street.

La Salle moved to its present location at 20th Street and Olney Avenue in 1929, purchasing part of the historic Belfield Farm, once the home of American painter Charles Willson Peale. No sooner had work begun on the collegiate Gothic towers of College Hall than the country plunged into the greatest depression it has ever known. Somehow La Salle College survived the financial doldrums of the 1930's only to be faced by the greater threat posed by the depletion of the all-male student body during World War II. At its lowest enrollment, the College had only 90 students.

After the war's end, a tremendous influx of veterans created an entirely new challenge of overcrowding. La Salle began an era of expansion that has continued to the present day. In 1970 La Salle ended its century-old tradition as an all-male institution and accepted its first women students. Today, women make up half of the day school enrollment.

Building and expansion have continued at a rapid pace ever since 1946. A significant resident population of 1,700 students is housed at La Salle. The most recent additions to the campus include a cluster of 75 modern townhouses and the spectacular Connelly Library. Acquiring the remainder of the Belfield Estate in 1984 and the St. Basil's property in 1989 added significantly to the campus, not only in acreage but also in beauty and historical tradition.

The physical growth on campus has been matched by the vitality and innovation of academic and student life programs. The curriculum has been revised after a careful faculty study. New majors and minors have been added. A special honors concentration in business has been developed. Financial aid to students has increased dramatically, as have the activities and services of the Student Affairs area.

In recognition of the growth and diversity of La Salle and the strength of its educational offerings, the Governor of the Commonwealth of Penn-

sylvania bestowed the status of university on La Salle in 1984. A new chapter in our history had begun.





Our Aims and Traditions

Though often mistakenly connected with the French explorer, the name of the University commemorates the 17th-century French educator and founder of the Christian Brothers, John Baptist de La Salle. The traditions of this saintly, innovative educator have been continued by the Brothers, a non-clerical order of religious who have been teaching in the United States since 1845. Under the auspices of the Brothers, the University strives to continue such Lasallian traditions as devotion to excellence in teaching, concern for ultimate values and for the individual values of its students.

In the light of these traditions, La Salle offers students an education founded on the idea that people's intellectual and spiritual development go hand in hand, complementing and fulfilling one another. The basic purpose of the University is a free search for truth and the development of materials and skills necessary for the search; its religious concern is an extension of that purpose. In a company of mature teachers and scholars, the University urges students to confront the ultimate questions of human experience: who they are; where their destiny lies; how they are to reach it.

La Salle is committed to a liberal education of both general and specialized studies. It wants its students to liberate themselves from narrow interests and prejudices and to learn to observe reality with precision, judge events and opinions critically, think logically, communicate effectively, and sharpen aesthetic perception. The curriculum involves a body of knowledge about the universe; about people—their nature, behavior, and values; about God. It also provides an opportunity to gain specialized knowledge in one field of learning as a preparation for graduate study or entry into professional life. Beyond this breadth and depth of knowledge, the University encourages its students to seek wisdom; that is, to grasp those basic principles which can give order to particular facts.

Although undergraduate education remains its primary purpose, La Salle also offers Master's programs in selected areas of specialization. For the most part, these programs focus on professional goals through advanced study and through application of theoretical knowledge in the fields represented.

As a private Catholic university, La Salle pursues these aims in a religiously diverse community of teachers and students interested in studying secular subjects in their autonomy, undertaking religious studies in a systematic and critical way, and

investigating what interrelations these subjects may have. The community also engages in programs in which the students' personal, social, and religious values may take root and in which the students may grow in mature attitudes and behavior in all human relationships. The ultimate hope of the University is that its graduates will be ready for informed service and progressive leadership in their communities and will be able to fulfill the immediate and final goals of their lives.



General Reference



If a student is well-motivated toward a college career and can show evidence of academic achievement and ability, the Admissions Committee will welcome an application. In arriving at its decision, the Committee studies the high school record, test scores, and recommendations from high school faculty, guidance counselor, and principal. Each applicant is given personal consideration. La Salle does not discriminate against any applicant for admission because of race, color, creed, sex, national origin, or physical handicap. Admission is based solely upon an applicant's qualifications and ability to meet the established admission requirements.

APPLYING FOR ADMISSION

The Committee on Admissions will consider a qualified applicant for acceptance any time after completion of the junior year. The following credentials are required for evaluation:

1. A completed application to La Salle University.
2. A transcript of three-year high school scholastic and personality records.
3. The results of the College Board Scholastic Aptitude Test or of the American College Testing Program.

The successful applicant must graduate from high school with creditable grades.

An interested student is encouraged to arrange for a campus visit, which might include a personal interview and tour. Phone 215-951-1500.

In exceptional cases, students may be admitted after completion of the junior year on the recommendation of their high school counselor and evidence of superior achievement.

Applicants may secure application materials from the Office of Admissions. These materials include a form which is to be mailed directly to the University by the high school. Completed applications and the \$30.00 application fee should be sent to the Office of Admissions. The Director of Admissions will notify applicants as soon as possible after a decision has been made. If accepted, a student is asked to forward a \$100.00 deposit (\$200 for resident students), usually within three months of acceptance. This deposit will be applied to first semester expenses; the entire deposit is forfeited if an applicant chooses not to attend La Salle.

ADMISSION REQUIREMENTS

HIGH SCHOOL UNITS

Your record should show successful completion of at least 16 units of high school work, including the following:

English	4 units
Mathematics:	
Must include at least	
two years of Algebra	3 units
History	1 unit
Natural Science	1 unit
Foreign Language	<u>2 units</u>
	11 units

The remaining five units may be distributed as follows:

1. Applicants for the *Liberal Arts* program may present five other units in academic subjects.
2. Applicants for the *Science, Mathematics, or Computer Science* programs may present five other units in academic subjects but including an additional one-half unit in mathematics.
3. Applicants for the *School of Business Administration* may present five academic or commercial units, excluding typing.

LANGUAGE REQUIREMENTS

All applicants should present two units in the same foreign language.

ENTRANCE EXAMINATIONS

Applicants to the freshman class are required to take either the American College Testing Program or the Scholastic Aptitude Tests given by the College Entrance Examination Board. These tests should be taken no later than January (SAT) or February (ACT) of the senior year. Arrangements may be made through your high school counselor or by writing, six weeks before the test date, to either:

CEEB—The Educational Testing Service, Box 592, Princeton, NJ 08540 or Box 1025, Berkeley, Calif. 94701

OR

ACT—The American College Testing Program
Box 451, Iowa City, Iowa 52240

La Salle University's identification number:
CEEB-2363; ACT-3608

ACHIEVEMENT TESTS

The CEEB Achievement Tests are not required. These tests are helpful to departmental advisors, however, in determining placement in certain English, mathematics, and foreign language courses.

Admissions

They are recommended, therefore, to students who:

1. wish to apply for a waiver of the freshman composition requirement;
2. desire immediate placement in a calculus course;
3. plan to continue study of a language in college after having completed at least two years of that language in high school.

MEDICAL RECORDS

All accepted students are required to have a report of medical history on file in the Dispensary prior to their attendance at the University.

FOREIGN STUDENT ADMISSIONS

La Salle University is authorized by the Department of Justice, Immigration and Naturalization Service to issue Certificates of Eligibility (Form I-20) for non-immigrant "F-1" student status, to foreign students who meet admission requirements. Preliminary application materials are available from the Coordinator of Foreign Admissions, La Salle University, Philadelphia, PA 19141.

ADVANCED PLACEMENT

La Salle University participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the University agrees to give credit and/or advanced placement to students who perform satisfactorily both in college-level courses taken in secondary school and in the advanced placement examinations administered by the Board. The equivalents for the grading scale are:

- 5 or 4 = Advanced credit and advanced placement.
- 3 = Same, on recommendation of departmental head.
- 2 = Advanced placement only on recommendation.
- 1 = No advanced placement or advanced credit.

La Salle University also participates in the College-Level Examination Program of the College Entrance Examination Board. Students who wish to be considered for advanced credit through this program should write for information to the College-Level Examination Program, Educational Testing Service, Box 977, Princeton, NJ 08540.

TRANSFER STUDENTS

La Salle University welcomes qualified transfer students to the Fall and Spring terms and to the Summer Sessions. Candidates for admission from colleges which offer courses of study similar to those of La Salle University should submit transcripts of their college records as soon after applying for admission as is possible. All except A.A. and A.S. degree holders are required to submit their high school transcripts also. Transfer students should submit the results of College Entrance Examination Board tests or of the American College Testing Program, if available. A letter of appraisal from the Dean of Students of the college or university attended is requested in most cases.

All of these records should be in the Admissions Office at least 30 days before the beginning of the semester for which the student is applying. This interval is suggested to provide ample time to process the application, to evaluate transcripts, and to arrange a pre-registration interview.

The previous college record of the applicant must indicate good academic standing. Students applying for transfer from a fully accredited college or university will be considered for admission if their grade point average is 2.25 (on a 4.00 scale), but a 2.50 or higher is preferred. Transfer applicants from colleges which have applied for regional accreditation will be considered if their grade point average is 2.75 or higher (on a 4.00 scale). The decision on each application is based mainly on the grade point average earned at the college or university the student attended before applying to La Salle.

Credit will be allowed for courses completed at the institution from which the applicant is transferring if they have a quality point value equivalent to or above the La Salle C grade (2.00). Normally, 70 credits may be accepted for transfer.

Transfer students may be required to make up certain courses which belong to the sequence required in the program of studies for which they are applying.

Business students may be required to validate selected transfer business courses.

Interested prospective students should direct their inquiries to the Assistant Director of Admissions for Transfer Students.

ACADEMIC DISCOVERY PROGRAM (ADP)

The Academic Discovery Program (Pennsylvania ACT 101) is a special program which provides free support services for students whose records indicate that they could benefit from extra academic assistance and who also meet certain criteria of financial need. The ADP helps students to develop good study habits, establish clear career goals, and compete successfully in the academic setting. Students who are selected to participate in the ADP must attend a free pre-college summer program before their freshman year, taking courses in mathematics, composition, study skills, and critical thinking. During the academic year, students take courses from the standard curriculum, but are assigned counselors, tutors, and an academic advisor to support them in their efforts. As much as possible, each student's program is tailored to his or her individual needs. To obtain application materials, write or call the Day Admissions Office, 215-951-1500. For further information regarding the ADP or the Community Academic Opportunity Program Grant, call the ADP Office, 215-951-1084.

ADMISSIONS FOR VETERANS

All veterans coming directly from the service with proof of a high school diploma or its equivalent are eligible to enroll as students at La Salle University. For answers to specific questions, veterans may telephone the Registrar's Office, 215-951-1020.

CONTINUING EDUCATION FOR WOMEN

The Continuing Education for Women (CEW) program at La Salle is designed to ease the transition for adult women who wish to begin or resume their college education. Women may enter CEW through the day or evening programs, whether they are interested in taking single courses or pursuing a degree. Any woman 24 years or older who has a high school diploma or equivalent is eligible to apply.

CEW has been both a popular and a successful educational program at La Salle, and perhaps the main reason for this is the counseling, direction, and sense of community that it provides. Students are invited to orientation programs which focus on study skills and other "survival techniques" for succeeding at the University and to workshops which are held on various topics of interest, academic and otherwise. Besides being informative, orienta-

tion programs and workshops bring CEW students together, creating an informal network or community for support. After successfully completing 15 credits of academic coursework, the transition to La Salle has been accomplished and students transfer out of the CEW program.

To arrange an interview or to apply for admission through the program, visit the CEW office, located on the second floor of the Administration Center, or telephone 215-951-1060.

COURSE SELECTION

All accepted students will receive a course selection form in the mail in early April. At this time they may indicate their choice of courses for both Fall and Spring terms. Additional academic counseling is available to freshmen during the Pre-College Counseling Program in the summer.



Campus Services

ACCOMMODATIONS FOR RESIDENTS

The residence facilities accommodate more than 1800 students and consist of 11 coeducational halls, two apartment complexes, and one townhouse complex. The three-story residence halls contain single, double, and 3-person rooms with a common bathroom on each floor of men or women. Some quad-style rooms consist of adjoining double rooms which share a bathroom. One- or two-bedroom garden apartments and four-bedroom townhouses are available to upper division students.

An application for housing and the required security deposit should be submitted when confirming acceptance. The Resident Life Office will then inform the student of the application's status. If a space is reserved, and a new student decides after June 15 not to live on campus, the entire security deposit is forfeited.

The residence halls provide living, learning, and recreation facilities. There are lounges, mailrooms, quiet study areas, recreation areas, and card- or coin-operated laundry and vending machines. The Campus Store is a convenience store for magazines, clothes, food, stationery, and personal supplies. Residents are permitted to have cars on campus. More detailed information on resident life and facilities can be found in *The Student Handbook*.

The resident life program is administered by a staff of professionals. Graduate student Resident Directors and undergraduate Resident Assistants reside in each living unit and serve as counselors, building managers, activity programmers, and resource persons. The staff receive room and board compensation and are an outgoing and diversified group who are interested in working with students to make college life in residence an enjoyable and educational experience.

Both the residence and dining facilities are closed during the Thanksgiving, Christmas, and Spring recesses.

For further information about resident life, contact the Resident Life Office, North Halls Complex, Telephone 215-951-1550.

OFF-CAMPUS HOUSING

In order to assist members of La Salle in locating available housing in the surrounding community, help is available through the Off-Campus Housing Service. The Service provides: off-campus housing referral listings; roommate referral lists; and general off-campus rental information.

La Salle University does not inspect off-campus accommodations nor screen prospective landlords and tenants. Any questions pertaining to off-campus housing should be directed to Off-Campus Housing, Resident Life Office, North Halls Complex, Telephone 215-951-1550.

FOOD SERVICES

The Food Service Department provides students with a complete range of services and meal plan alternatives. This department, which has been honored by the National Association of College & University Food Services (NACUFS) for outstanding menu selection, operates a 550-seat cafeteria, a Food Court consisting of five different kiosks, a restaurant (Intermissions) and night spot (Backstage), a Faculty Dining Room, Catering Banquet services, and a full range of vending selections throughout campus.

Students who will be living in a residence hall on campus are required to participate in one of the six meal plans available. These meal plans are specifically designed to meet the individual needs and the busy life style of an undergraduate student.

The selection of the meal plan most suited to your needs should be based on:

- Where you will be eating most of your meals (e.g., North Dining or the Food Court).
- How often you will be on campus during the weekends.
- How your appetite would be most satisfied (i.e., an "all you can eat" meal vs. an "a la carte" meal).

For more information on the meal plans, please contact the Food Service Department at 215-951-1388.

THE LA SALLE GOLD CARD

The La Salle University I.D. card serves as a means of access to a special Gold Card account. After depositing money in the account, students can use their I.D. to make purchases in the Campus Store, the Book Store, the L-Stop (convenience store), all Food Service areas, vending, laundry and copier machines, etc.

Students can add funds to their Gold Card account at any time. At the end of the semester, all leftover funds will be automatically credited toward the following semester's balance.

For more information, contact the Gold Card Office at 215-951-1578.

STUDENT HEALTH SERVICES

The La Salle University Dispensary provides medical diagnosis and treatment of minor illnesses and injuries and is available to the student body for initial care, first aid, and health information. Located in the North Complex of the Residence Halls on Olney Avenue, directly across from Hayman Hall, it is open Monday through Friday.

The Dispensary is staffed by a registered nurse who serves as the Director. University physicians see students in the Staff Clinic of Germantown Hospital five days a week, and a physician is available in the Dispensary weekly. The Clinic is located on the first floor of the hospital, and referrals to the clinic are made by the nurse from the Dispensary. All students are required to complete the Student Health Services Health Questionnaire prior to their attendance at the University.

Both medical and dental emergency services have been arranged with local hospitals, and a complete list of private physicians of every medical specialty is also available. Students are responsible for the costs of these treatments.

Health insurance is strongly advised for all students, especially those in residence, and is required for all international students. Students who are under 23 years of age generally can be covered under their family Blue Cross (Hospital Insurance) and Blue Shield (Medical-Surgical Insurance) program while enrolled as full-time college students. Information concerning special Students' Blue Cross and Blue Shield plans for those not covered by family plans is available.

THE LIBRARY

The Connelly Library was dedicated in March 1988 and opened its doors to La Salle students, faculty, and staff in August of that year. With shelving for 500,000 volumes, seating for over 1,000 people, and a fully automated catalog, the library offers a combination of traditional library services and the latest in information technology. The new building provides not only attractive study spaces but also several new departments and features, including Media Services (videotapes and cassettes), Special Collections, personal computers, and a student lounge with vending machines and lockers. The library presently has more than 350,000 volumes, 1,700 current periodical subscriptions, and 50,000 units of microforms, as well as a growing body of media in electronic formats.

Reference Librarians are available most hours that the library is open to offer assistance with the collection and to provide group and individualized instruction for research projects. Subject-specific library instruction is given in many courses. Librarians can also assist users with the several hundred electronic databases available through dial-up access to vendors such as Dow Jones News Retrieval, or locally on compact disc.

The Special Collections Department houses noteworthy collections of books and manuscripts in various subject areas. Of particular significance is the internationally renowned *Imaginative Representations of the Vietnam War Collection*. Also of interest to scholars are *The Japanese Tea Ceremony* and a number of unique holdings of the works of major authors.

La Salle students and faculty can take advantage of the resources of other libraries throughout the United States by using the Interlibrary Loan Service. Librarians can assist users with locating materials in other libraries and can obtain books and photocopies of journal articles on loan; a telefax machine speeds transmittal of urgently needed materials. Through a cooperative borrowing agreement with over 30 local libraries, students and faculty can also directly borrow materials from other academic institutions in the greater Philadelphia area.

BUILDING BLOCKS: CHILD DEVELOPMENT CENTER

Established in 1973 by a group of La Salle faculty, students, and staff, Building Blocks is a privately incorporated day care center housed on La Salle's campus. Serving the immediate La Salle community and our neighbors beyond the campus, the center cares for some 50 children whose ages range from 18 months to 6 years. The trained professionals at Building Blocks also supervise work study students, volunteers, and students who fulfill certain course assignments through projects at the center. Interested parents should telephone the Director at 215-951-1573.

Expenses

	Per Semester
Basic tuition ¹	\$6,215
Tuition per credit hour (part-time and extra courses)	435
Additional for Science, Nursing, and Business Majors	100
Science Laboratory Fee—charged non-science majors electing certain science courses—per course	50
Nursing Course Fee—charged non-nursing majors electing nursing courses—per course	50
Business Course Fee—charged non-business majors electing business courses—per course	50
Communication Fee—charged for certain Communication courses—per course	50
Instructional Technology Fee	
Full-time (12 hours or more)	45
Part-time (11 hours or less), per course	10
Registration Fee	
Fall and Spring semester—8 hours or more	40
Fall and Spring semester—7 hours or less	20
Summer sessions	15
Pre-college Counseling and Orientation Fee—charged to entering students in their first semester only	100
Administrative Fee—charged to students who elect to receive credit through authorized standardized testing procedures or approved tests—per course	45
Housing (per student/per semester) ²	
Residence Halls ³	
Single Room Rent	1,770
Double Room Rent	1,550
Triple Room Rent	1,385
Quad Room Rent	1,665
Apartments	1,770
Townhouses	1,895
Telephone Service Fee—per semester	45
Freshman Resident Orientation Fee—charged in first semester only	75
Meal Plans	
Residence Hall students must select one of the following:	
10 Meal Plus \$75 Plan ⁴	1,035
12 Meal Plan	1,035
10 Meal PLUS Plan ⁵	1,260
12 Meal PLUS Plan	1,350
15 Meal PLUS Plan	1,560
7 Meal PLUS Plan ⁶	1,245
Optional Meal Plan (Apartment/Townhouse Residents & Commuters):	
5 Meal Plan	475

¹ Students enrolled for 12 or more semester hours are considered full-time. Payment of full-time tuition entitles a student to enroll for up to five courses. Additional courses beyond this are assessed tuition at the part-time rate.

² The housing contract is a commitment for both Fall and Spring semesters.

³ Students living in the residence halls are required to participate in one of the Residence Hall Meal Plans.

⁴ This plan offers 10 meals/week, Monday-Friday, in North Dining, PLUS \$75 in a special food account.

⁵ The 10, 12, 15 PLUS Plans offer meals in North Dining on a Monday-Friday basis, PLUS \$315 in a special food account. The PLUS values in the special food account may be used to purchase a la carte meals during the week or on weekends in the Food Court and Intermissions. Unexpended balances in the student's special food account are forfeited at the end of each semester.

⁶ The 7 PLUS Plan offers 7 meals per week in North Dining on a Monday-Friday basis and \$550 in a special food account.

In view of rising costs, La Salle University must reserve the right to amend or add to the charges at any time and to make such changes applicable to students presently enrolled as well as to new students.

DEFERRED PAYMENT

If you do not have the entire amount you need to register for the Fall or Spring semester, you can choose the Deferred Payment Plan, which allows you to spread out your payments in three monthly installments throughout the semester. For a \$15.00 application fee and a small finance charge, you can defer payment on as much as 75% of your educational expenses (or as little as \$250.00 if that's all you need). To find out more information or to obtain your application, contact the Student Loan Office, 215-951-1054.

MONTHLY PAYMENT PLAN

In cooperation with Academic Management Services, La Salle offers a monthly payment plan designed to relieve the pressure of "lump-sum" payments each semester. This plan allows you to spread the cost over a period of months without borrowing money or paying interest charges. Automatic life insurance is provided at no charge. The enrollment fee is \$50 a year for each enrolled student; there are no other charges. There is no down payment if you enroll in the plan *before April 25*.

SEMESTER INVOICES

Full payment of semester invoices is due in mid-August for the Fall term and in mid-December for the Spring term. Students who have not paid in full within the prescribed time are not registered, nor are they included on official class lists.

MasterCard and VISA may be used for payment of invoices.

REFUNDS

The following refund policies apply to all students with the exception of those students who are attending the University for the first time and are recipients of Federal Title IV Financial Assistance. Those students are subject to the provisions outlined in the PRO RATA REFUNDS section, which appears on page 26.

ROOM AND BOARD REFUND POLICY

Meal Plan

Students who are released from their housing contract commitment (which requires Resident Life approval) may receive a pro rata refund of the unused portion of their meal plan.

Room Rent

Regardless of the reason for vacating, refunds will not be made for a semester's unused rent. The

housing agreement represents an obligation for the academic year.

REFUND OF TUITION

Under certain circumstances, students who withdraw may receive a partial refund of tuition. There are no exceptions to the following terms and conditions:

Fall and Spring Undergraduate Semesters	
Time of Withdrawal	Refund
Before first day of class	100%
During first week	80%
During second week	60%
During third week	40%
During fourth week	20%
After fourth week	None

For the purpose of refund, the student shall be considered to be in continuous attendance up to and including the date of submission of proper notice of withdrawal. The notice of withdrawal must be addressed to the Dean of the particular school. Ceasing to attend or giving notice to an instructor does not constitute proper notice. The allowed percentage of refund shall be based upon the official withdrawal date, which shall be determined by the date the notice of withdrawal is received by the Dean, or the postmark, if mailed.

For the purpose of refund computation, a week shall be defined as the period of seven successive days beginning with the official University opening of classes and NOT the first day in actual attendance by a particular student.

In those instances where a student's educational expenses were satisfied in whole or in part by Title IV Program Funds, and a refund of these educational expenses is authorized, that refund will be proportioned in accordance with U.S. Department of Education regulations governing refunds and cash disbursements made directly to students. Under those regulations, priority is given to the return of funds to Title IV Assistance Programs in the following order: Federal Stafford Loan, Federal Perkins Loan, Federal Pell Grant, and FSEOG. Students should be aware that the regulations may prevent the refund of any personal funds used for payment of tuition and fees. In instances where a student has received a cash disbursement prior to the recording of his or her withdrawal, the student may be required to return those funds to the University.

Financial Aid

Since the primary responsibility for college expenses rests with parents and students, financial assistance is normally granted on the basis of financial need together with demonstrated academic ability. The information below lists sources of aid available to students attending La Salle and the method of application.

CHRISTIAN BROTHERS' SCHOLARSHIPS

La Salle University offers 15 full tuition scholarships to students graduating from all Catholic high schools in the Philadelphia and Camden dioceses and from high schools conducted by the Christian Brothers of the Baltimore Province. Selection is based on academic excellence and potential for leadership in the La Salle community. Applications are restricted to students nominated by their high school principal. Scholarship application forms will be sent directly to nominees designated by the principals. All completed scholarship materials must be received by the Director of La Salle's Honors Program no later than January 15.

UNIVERSITY SCHOLARSHIPS

At least 30 full and partial tuition scholarships are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. This scholarship competition is open to high school seniors who have scored approximately 1300 in the College Board Scholastic Aptitude Test and who have a class rank in the top 10 or top 10% of the high school graduating class. Application materials may be obtained by contacting the Director of the Honors Program. The completed scholarship materials must be received by the Honors Center no later than January 15.

FOUNDER'S SCHOLARSHIPS

Founder's Scholarships are awarded in the memory of St. John Baptist de La Salle, the founder of the Christian Brothers, the religious order which sponsors the University. St. La Salle's vision of teachers who would transform the lives of students and his desire to provide access to education to those who would otherwise not receive it revolutionized education. For his achievement, he was named the patron saint of teachers. His work is carried on at La Salle University as well as schools in 80 countries throughout the world.

Without neglecting the life of the mind, the traditional mission of the Lasallian school has been to

help young people plan and prepare for a useful and humanly rewarding career.

The awarding of a Founder's Scholarship is based on a variety of criteria, chief of which are class rank and SAT scores. The scholarship is renewable for four years providing a cumulative average of 3.0 is maintained. All students who have been accepted for admission by March 1 will be considered for the scholarship; no additional application is required.

CHRISTIAN BROTHERS' GRANTS

Grants funded by the Christian Brothers are awarded to students who have demonstrated academic excellence and financial need, as determined through a needs analysis system, i.e., Free Application for Federal Student Aid (FAFSA). These awards are renewable, provided the student maintains a 2.5 cumulative average and continues to show financial need.

LA SALLE UNIVERSITY GRANT

As a reflection of its dedication to providing financial aid to students on the basis of financial need, the University has established the La Salle University Grant program. Awards from this grant are made to students based solely on their financial need as determined through completion of the FAFSA form. Awards are renewable provided the student maintains satisfactory progress and continues to show financial need.

ATHLETIC GRANTS

La Salle University offers grants to men and women excelling in athletics. Contact with the La Salle University Athletic Department is made by the student's high school coach. These grants can be maintained through the four years of study at La Salle University.

COMMUNITY ACADEMIC OPPORTUNITY PROGRAM (CAOP)

The Community Academic Opportunity Program is a grant available to students who have been accepted into the Academic Discovery Program. It is designed to give financial assistance to minority students who are residents of Philadelphia.

The amount of the grant will be equal to the difference between the total of tuition and fees minus all gift aid which the student is eligible to receive

(Federal Pell and PHEAA grants as well as private aid). In addition, the student will receive up to \$500 per academic year for books and supplies.

COMMUNITY SERVICE GRANTS

Tuition grants are awarded to entering freshmen who have shown interest in and commitment to community service prior to their undergraduate careers, and who are willing to continue such involvement during their years at La Salle. An applicant must also have total SAT scores of at least 1000 and be ranked in the first or second quintile of his or her class.

The grants will cover 50% tuition and all registration fees for the two semesters of the regular academic year and are intended to free recipients from the need to seek employment during those two semesters. The grants are renewable each year if the recipient maintains a 2.5 GPA and continues his or her involvement with community service.

The deadline for filing a grant application is January 15.

LA SALLE UNIVERSITY DIVERSITY SCHOLARSHIP

Consistent with the LaSallian commitment to a culturally and racially diverse student population, La Salle University has established the Diversity Scholarship. La Salle awards tuition scholarships to minority students accepted as entering freshmen. The scholarships supplement state and federal grants up to full tuition and registration fees for the two semesters of the regular academic year. The scholarships are renewable each year if normal progress is made toward the degree.

The La Salle University Diversity Scholarship is open to all minority students who have demonstrated financial need. Recipients must have total SAT scores of at least 950 and a cumulative grade point average of at least B+ (85).

All completed scholarship materials must be submitted by January 15 to the Assistant Provost for Multicultural and International Affairs.

FEDERAL PELL GRANTS

The Pell program is a federally administered program available to needy students taking no fewer than six credits per term. Students may receive up to \$2300 per academic year. Applications are available from your high school guidance counselor or the La Salle Financial Aid Office. Eligibility is deter-

mined by the federal government and notification is sent directly to students. In addition to financial need, a student must make normal progress toward a degree to retain eligibility.

FEDERAL PERKINS LOANS

The Federal Perkins Loan provides needy students with long-term, low interest loans for educational expenses. The University determines the amount of the loan to be offered within certain federal guidelines. Interest at the rate of 5% per year on the unpaid balance begins to accrue nine months after the student ceases at least half-time study. The loan repayment period may be as long as ten years, depending upon the total amount borrowed. Students must make normal progress toward a degree to maintain eligibility.

PENNSYLVANIA STATE GRANTS (PHEAA) AND OTHER STATE GRANT PROGRAMS

Pennsylvania state grants are administered by Pennsylvania Higher Education Assistance Agency and range from \$200 to \$2600. Eligible students must demonstrate financial need, maintain Pennsylvania residency, be enrolled on a full-time basis, and complete a minimum of 24 credits per year. The Free Application for Federal Student Aid (FAFSA) serves as the state grant application for Pennsylvania residents.

Other states in addition to Pennsylvania have scholarship programs for their residents. Information and applications are available from the respective State Boards of Education.

FEDERAL WORK-STUDY PROGRAM

The Federal Work-Study program provides needy students with access to part-time jobs in both on- and off-campus locations. The funds earned do not provide direct tuition relief, but are intended to help meet incidental expenses encountered by students. Students are paid on a weekly basis for the number of hours worked. The total amount that may be earned through the work program is determined by students' needs and availability of funds at the University. Students work an average of 12 hours a week throughout the academic year. In addition to demonstrating need, students must make normal progress toward a degree to maintain eligibility.

Financial Aid

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (FSEOG)

The FSEOG program is a federally funded, college administered program available to needy students who are also Federal Pell recipients. La Salle University requires submission of the Free Application for Federal Student Aid (FAFSA) for eligibility evaluation. In addition to demonstrating financial need, students must make normal progress toward a degree to retain eligibility.

FEDERAL STAFFORD LOAN (FSL)

This program is administered by state and private agencies with the assistance of participating lending institutions. Students enrolled on at least a half-time basis and making normal progress toward a degree may apply to this program. The yearly limits are: \$2625 for a student's freshman year, \$3500 for the sophomore year, and \$5500 for the junior and senior years. The current interest rate is 6.22%. Repayment begins six months after the student ceases half-time enrollment.

FEDERAL PARENT LOANS FOR UNDERGRADUATE STUDENTS

The PLUS program allows parents to borrow up to the cost of attendance per academic year for each dependent undergraduate student. The interest rate varies but is capped at 10%. Monthly repayment begins no later than 60 days after the loan is disbursed. Applications are available from participating banks, savings and loans, and credit unions.

INSTITUTIONALLY ADMINISTERED SCHOLARSHIPS

Through the generous contributions of foundations, corporations, and individuals, La Salle students are eligible for a variety of private scholarships. You can apply by filling out a single Common Scholarship Application, available from the Financial Aid Office. Scholarships available through La Salle include:

- ♦ Berger-Wallace Scholarship
- ♦ James J. Binns Scholarship
- ♦ William J. Brett, Jr. Memorial Scholarship
- ♦ John F. Byrne Memorial Scholarship
- ♦ Robert J. Chesco Memorial Scholarship
- ♦ Lt. John H. Condon Memorial Scholarship
- ♦ Bishop Corrigan Memorial Scholarship
- ♦ J. Russell Cullen, Sr. Memorial Scholarship

- ♦ Josephine Danielski Memorial Scholarship
- ♦ Robert L. Dean Writing Scholarship
- ♦ Michael A. DeAngelis Memorial Scholarship
- ♦ Brother Claude Demitras Scholarship
- ♦ Richard J. Diamond Memorial Scholarship
- ♦ Anne H. and Harry J. Donaghy Scholarship
- ♦ Brother Patrick Ellis Alumni Scholarship
- ♦ John and Kamila Feltowicz Scholarship
- ♦ James A. Finnegan Public Service Fellowship
- ♦ Julius E. Fioravanti Memorial Scholarship
- ♦ J. Anthony Hayden Scholarship
- ♦ H. Blake Hayman Scholarship
- ♦ Anthony F. Heck Memorial Scholarship
- ♦ Jack Keen Memorial Scholarship
- ♦ Dr. Joseph Kelly Memorial Scholarship
- ♦ Maurice and Sara Land Foundation Scholarship
- ♦ John McShain Scholarship
- ♦ Charles E. Merrill Trust Scholarship
- ♦ Joseph L. Moran Memorial Scholarship
- ♦ James V. Mulvihill Memorial Scholarship
- ♦ Charlotte W. Newcombe Foundation Scholarship
- ♦ Joseph Lawrence Scheiter Memorial Scholarship
- ♦ W. W. Smith Charitable Trust Scholarship
- ♦ Lillian and Ralph Tekel Scholarship
- ♦ Tri-State Dairy-Deli Association Scholarship
- ♦ John H. Veen Memorial Scholarship
- ♦ Thomas H. White Memorial Scholarship

SPONSORED SCHOLARSHIPS

There are many special assistance programs that offer scholarships, grants, and loans to students. You may qualify for one of these programs through religious affiliation, ethnic heritage, parents' employers, organizational memberships, or a special talent. Programs through state and/or federal agencies—e.g., Veterans' Bureau, Office of Vocational Rehabilitation—may also offer financial aid to qualified students. Knowledge of these programs is available through books and pamphlets on scholarships and financial aid in your school or local library.

APPLICATION PROCEDURES FOR FINANCIAL ASSISTANCE

All applicants for financial aid must file the Free Application for Federal Student Aid (FAFSA). The deadline for incoming freshmen and transfer students is February 15. Returning students (sophomore, junior, or senior) must complete the FAFSA

STUDENT RIGHTS AND RESPONSIBILITIES

The following are the rights and responsibilities of students receiving federal funds.

You have the right to ask a school:

- The names of its accrediting or licensing organizations.
- About its programs, about its instructional, laboratory, and other physical facilities, and about its faculty.
- About its cost of attendance and its policy on refunds to students who drop out.
- What financial assistance is available, including information on all federal, state, local, private, and institutional financial aid programs.
- What the procedures and deadlines are for submitting applications for each available financial aid program.
- What criteria it uses to select financial aid recipients.
- How it determines your financial need. This process includes how costs for tuition and fees, room and board, travel, books and supplies, and personal miscellaneous expenses are considered in your cost of education. It also includes how resources (such as parental contribution, other financial aid, assets, etc.) are considered in calculating your need.
- How much of your financial need, as determined by the institution, has been met.
- How and when you will be paid.
- To explain each type and amount of assistance in your financial aid package.
- What the interest rate is on any loan that you have, the total amount you must repay, the length of time you have to repay, when you must start repayment, and what cancellation or deferment privileges apply.
- How the school determines whether you are making satisfactory progress, and what happens if you are not.
- What special facilities and services are available to the handicapped.

If you are offered a College Work-Study job, what kind of job it is, what hours you must work, what your duties will be, and how and when you will be paid.

To reconsider your aid package, if you believe a mistake has been made or if your enrollment or financial circumstances have changed.

It is your responsibility to:

- Review and consider all information about a school's program before you enroll.
- Pay special attention to your application for student financial aid, complete it accurately, and submit it on time to the right place. Errors can delay or prevent your receiving aid.
- Meet all deadlines for applying for and reapplying for aid.
- Notify your school of any information that has changed since you applied.
- Provide all additional documentation, verification, corrections, and/or new information requested by either the Financial Aid Office or the agency to which you submitted your application.
- Read, understand, and keep copies of all forms you are asked to sign.
- Comply with the provisions of any promissory note and other agreements you sign.
- Repay any student loans you have. When you sign a promissory note, you're agreeing to repay your loan.
- Notify your school of any change in your name, address, or attendance status (half-time, three quarter time, full-time). If you have a loan you must also notify your lender of these changes.
- Attend an exit interview at your school if you have a Perkins Loan, Stafford Student Loan, or PLUS/SLS Loan.
- Satisfactorily perform the work agreed upon in a College Work-Study job.
- Understand the school's refund policy.

form *and* an Institutional Aid Application by March 15. All forms are available from the Financial Aid Office.

La Salle University's financial aid programs are organized to help students who need financial assistance. As long as there is continuing evidence of academic progress, as well as financial need, the University will make every effort to assist the student.

SATISFACTORY ACADEMIC PROGRESS

In order for a student to obtain funding from federal, state, and institutional sources, satisfactory academic progress must be maintained. For information regarding the standards by which a student is evaluated, see page 33.

REFUNDS

Students who are credited with aid in excess of tuition and other charges after all the appropriate forms have been completed will be sent a refund from the Financial Aid Office. Disbursement of refunds begins approximately four to six weeks after the start of the semester.

If a student withdraws from school, he or she may receive a partial refund. However, if a student's educational expenses were satisfied in whole or in part by Title IV funds, the refund will be proportioned in accordance with U.S. Department of Education regulations governing refunds and cash disbursements made directly to students.

Under those regulations, priority is given to the return of funds to Title IV assistance programs in the following order: Federal Stafford Loan, Federal Perkins Loan, Federal Pell Grant, and FSEOG. Stu-

Financial Aid

dents should be aware that the regulations may prevent the refund of any personal funds used for payment of tuition and fees. In instances where a student has received a cash disbursement prior to the recording of his or her withdrawal, the student may be required to return those funds to La Salle University.

PRO RATA REFUNDS

In accordance with the Higher Education Amendments of 1992, La Salle University provides a pro rata refund policy for *students who are attending the University for the first time and receive Title IV Assistance* (including Federal Parent Loans received on the student's behalf). Pro rata refunds are extended to those students who qualify and withdraw prior to the tenth week of class.

The refund will be a percentage determined by dividing the total number of weeks in a semester for which the student has been charged into the number of weeks remaining in the semester as of the last recorded day of attendance by the student, rounded downward to the nearest ten percent. Refunds of tuition, fees, room and board, and other charges to a student will be made according to the following schedules:

<u>Time of Withdrawal</u>	<u>Tuition & Room Refund</u>	<u>Meal Plan Refund</u>
Before first day of class	100%	Balance in Account
During first week	90%	Balance in Account
During second or third week	80%	Balance in Account
During fourth week	70%	Balance in Account
During fifth or sixth week	60%	Balance in Account
During seventh or eighth week	50%	Balance in Account
During ninth week	40%	Balance in Account
After ninth week	None	Balance in Account



REGISTRATION

During an announced pre-registration period in the Spring term, students meet with their Chair or advisor to plan a roster of courses for the upcoming year. On the basis of this pre-registration, the Registrar's Office publishes a Master Roster listing courses, times scheduled, and teachers assigned. The student then chooses a course section, time, and teacher. The Business Office will bill the student in August and December for the courses chosen, completing the registration process.

Students who have not completed mail registration will register on campus during the week before classes begin.

If students cannot register during this period because of circumstances beyond their control, they may complete registration during the first two days of classes.

Late registration is permitted only in the most unusual circumstances and requires the permission of the dean of the school and the payment of a fee of \$10.00.

CLASSIFICATION OF STUDENTS

A full-time student carries a *minimum* of 12 semester credit hours; many carry an average of 15 semester credit hours. A student's program may require more hours per week in some areas of instruction.

Class level is determined by the number of credit hours earned by the student. Students having 0 to 23 credit hours are considered freshmen; those who have earned 24 to 53 credits are sophomores; those having 54 to 83 hours are juniors; and those with more than 84 credit hours are classified as seniors.

Part-time students carry a roster of less than 12 hours per week. Students in this category will require more than the normal four years in which to earn a degree.

Students who do not fulfill certain admission requirements may be admitted to follow particular courses, and are considered as special students. They do not register for a degree granting program. Credits earned by a special student may be counted towards a degree as soon as he or she has met all the requirements for admission and candidacy for a degree provided that the credits thus earned are applicable to the program of studies. A special student cannot hold a scholarship nor take part in extracurricular activities.

PROGRAM OF STUDIES

The program of studies prescribed by the student's advisor and approved by the dean of the school in which the student is enrolled is his or her official roster of courses.

It is the student's responsibility to see that all the requirements of this program are fulfilled. He or she should have in writing from the dean any exceptions to the prescribed program which may be granted.

Students may be permitted to change from one program to another, or from one area of instruction to another, only when their previous record indicates that they may profit by such a change. In any change of this type the student must have the written permission of the Chair and the dean of the school. This change may entail taking approved summer courses or an additional semester in college. In no case may students who transfer receive promotion or a degree sooner than they would have received it had they not transferred. No degree may be received less than one year after change of curriculum.

DUAL MAJORS

In some circumstances, a student with special needs and abilities may be permitted to major in two departments or to follow a special interdepartmental program. After developing the program in consultation with both departments, the student must obtain approvals of both Chairs and of the dean. Arrangements should normally be completed during the Spring semester of the sophomore year.

MINORS

In addition to their majors, students may also complete up to two minors. These minors will be officially noted on the transcript. Minors may be constructed in these subjects: accounting, art history, biochemistry, biology, chemistry, communication, computer science, criminal justice, economics, education, English, foreign language, geology, history, mathematics, music, philosophy, physics, political science, psychology, religion, and sociology. These minors require six courses within the discipline, not counting foundation courses. Students interested in minoring in a subject should consult with the Chair of that department for advice on the requirements.

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Special minors may also be taken in these areas: Asian Studies, Business Administration, Central and Eastern European Studies, Environmental Studies, Health Care Administration, International Studies, Justice and Society Studies, Life Science, Risk Management and Insurance, Urban Studies, and Women's Studies. The requirements are listed in their proper alphabetical place in the Course Requirements section of this *Bulletin*.

URBAN STUDIES MINOR

Students may design a minor concentration by choosing requirements and electives in Urban Studies. The Economics Department supervises this program but it is multidisciplinary in all essentials. At all levels, students and faculty work closely with the staff of the La Salle Urban Studies and Community Services Center.

INTERNATIONAL STUDIES MINOR

Any student, regardless of his or her major field, can pursue as an interest the Minor in International Studies. This multidisciplinary program allows the student to select courses offered by many departments.

The Minor in International Studies requires a total of six courses. At least three of these can also fulfill other university requirements.

Economics, Political Science, and Business students will have to use only two or three electives in order to complete the program. Other students will have to devote about four elective courses for this purpose.

Students planning to spend one or two semesters abroad will probably be able to complete a portion of the program there and should meet with the Director before departing.

Interested students should see Dr. Joshua Buch, the Program Director, College Hall 415B, ext. 1030.

WOMEN'S STUDIES MINOR

The interdisciplinary Women's Studies Minor provides a contrast and balance to the traditional curriculum by putting women, their accomplishments and contributions, and traditional sex roles at the center of study. By choosing six courses from the interdisciplinary offerings, women and men students of any major may design a minor that complements their major. In addition to an introductory seminar (WST 270), courses are offered in the disciplines of communication, criminal justice, econom-

ics, English, foreign languages, history, nursing, philosophy, physics, psychology, religion, and sociology. A field internship or independent study may constitute one of the six required courses.

Interested students should see Dr. Elizabeth Paulin, Program Director, Olney Hall 264, ext. 1181.

JUSTICE AND SOCIETY STUDIES MINOR

The Minor in Justice and Society Studies takes an interdisciplinary approach to an academic and existential concern which is central to the mission of La Salle University. In light of the University's commitment to social justice, it is fitting that students be encouraged to select courses which, by their content and methodologies, focus on: understanding the notion of justice, thinking critically about the forms of injustice in contemporary society, envisioning more just social, economic and political structures, and reflecting upon the religious and philosophical foundations of justice.

The Justice and Society Minor is especially appropriate for students interested in learning about social justice and those considering careers in public service, law, education, social work, criminal justice, management, ministry, and finance.

For more information, students should contact Dr. David Efroymson, Director of the Project on Justice and Society, McShain Hall 213, ext. 1666.

CENTRAL AND EASTERN EUROPEAN STUDIES MINOR

The demise of Communism and the unprecedented political upheavals of recent years necessitate a greater American awareness of the state of affairs in Central and Eastern Europe. For that reason, La Salle's faculty developed a multidisciplinary Minor Program in Central and Eastern European Studies.

The program is open to any La Salle student interested in examining the nature of Communism and analyzing the reasons for the recent political, cultural, and social changes in the various countries of Central and Eastern Europe.

Students planning to participate in the La Salle-in-Europe Program or to study one or two semesters at another university should make arrangements with the Program Director prior to their departure to ensure completion of program requirements.

Other options and requirements are listed in the Central and Eastern European Studies brochure available from the Program Director, Dr. Leo Rudnytsky, Olney Hall 240, ext. 1200.

LA SALLE IN EUROPE—FRIBOURG/FREIBURG, SWITZERLAND

Consistent with the stated objective of La Salle University to aid students "to judge events and opinions critically (and) to communicate effectively," La Salle established in 1960 a year-abroad program at the University of Fribourg/Freiburg for all undergraduate students with French and/or German language background. La Salle admits students with a minimum GPA of 2.5/4.0 for sophomore or junior year studies from among its own undergraduates, as well as students from other accredited U.S. colleges and universities.

In conjunction with Providence College, La Salle forms part of the "Consortium Helveticum of the University of Fribourg/Freiburg." This program enjoys official recognition by the University of Fribourg/Freiburg; thus, La Salle-in-Europe students are also full-time students of the University of Fribourg/Freiburg, and the university's entire academic program is available to them. At the same time, the Consortium Helveticum supplements the offerings of the university with courses designed to satisfy the specific requirements of American curricula.

Interested students should contact Dr. Bernhardt Blumenthal, Director of the La Salle in Europe Program, Olney Hall 241, ext. 1200.

SPANISH LANGUAGE PROGRAM—UNIVERSITY OF MADRID

La Salle University is a member of the Academic Year Abroad Foundation, which is affiliated with the University of Madrid, Spain. This program is for one semester or a full year. Courses are offered in the language, literature, history, and art of Spain. In addition there is a special program for business students. Participants are placed with Spanish families. Meals are taken at the place of residence.

The principal aims of the program are:

1. To help the student achieve fluency in the spoken and written language.
2. To give the student the opportunity to experience and understand the nature of Spanish so-

ciety and institutions through constant and direct exposure to the nation's history, art, and contemporary life.

3. To prepare the future teacher of Spanish for the role which he or she will play in the classroom situation.

Interested students should see Dr. Leonard Brownstein, Professor of Spanish, Administration Center 207, ext. 1203.

ASIA AND JAPAN CENTERS

Asia and Japan Centers assist students in: planning a variety of academic programs with an emphasis on Asian languages and cultures; choosing appropriate overseas educational opportunities in East and Southeast Asia; and identifying career paths that will capitalize on the knowledge and skills developed through such courses of study.

Interested students should contact Eric Sackheim, Director of the Asia and Japan Centers, ext. 1685.

HONORS PROGRAM

The Honors Program provides the most academically talented students with an enriched program of general studies that will be both challenging and stimulating.

The freshman honors student, as an apprentice in the program, studies in honors sections of three required courses. Students who prove themselves able and interested continue with honors courses in such areas as religion, philosophy, and English, which offer more depth and more advanced reading. In the upper division, such courses will frequently be given by distinguished visiting professors. In the last two years, the honors student may, with the approval of the Honors Program Director, substitute an independent study course for any regularly scheduled course except religion or seminar. Class meetings in these courses are less frequent, and emphasis is on individual reading and research. Students who complete the requirements of the Honors Program are graduated with General University Honors.

Further information on the program is available from the Director of the Honors Program.

THE WRITING FELLOWS PROGRAM

The Writing Fellows Program offers a unique opportunity for good student writers to serve as undergraduate peer tutors in writing in courses

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throughout the University. Students selected to be Writing Fellows receive special training. Interested students should see Dr. Margot Soven, Program Coordinator, Olney Hall 140, ext. 1148.

CAREER PLANNING

Career Planning, which is located on the fourth floor of the Administration Center, offers a variety of services to students and employers. These include, but are not limited to, personalized career counseling and advertising of available positions. Any student or alumna/alumnus can utilize Career Planning services at any time during her or his lifetime.

Personalized career counseling includes the following services: job search strategies, resume critique, resume preparation assistance, cover letter/thank you letter/follow-up letter preparation assistance, skills assessment, interviewing techniques including mock interviews, advertising and posting of current employment openings, informational interview referrals, and employment referrals.

Career Planning also provides information on careers through the Career Resource Center. This consists of a library of occupational, governmental, and company literature to help students obtain information about prospective employers. Additionally, pertinent articles and information related to employment, education, and salary trends are available.

For further information, call ext. 1075.

COOPERATIVE EDUCATION PROGRAM

The Cooperative Education Program (Co-op) is a learning experience that extends beyond the campus of La Salle University. Students have the opportunity to work in a job related to their major or career goal, while earning money *and* credit for the experience. This program offers the unique opportunity to apply classroom theory to an actual work situation. Co-op can add relevance to a student's academic program, afford an understanding of human relationships outside one's peer group, and provide realistic vocational information as well as financial assistance.

These full-time employment commitments range from three to six months, thus requiring the student to dedicate either a Fall or Spring semester toward the Co-op Program. In order for the student to graduate in four years, early academic plan-

ning is crucial (see model rosters on pages 105 and 106). Co-op is an optional program open to all majors (except education) who have completed the sophomore year and have maintained at least a 2.25 GPA.

It is suggested that students apply to the Co-op Program before completing their freshman year. During the sophomore year students will prepare for a co-op placement. With the help of the Co-op counselor, each student will write a resume to be submitted to participating companies and prepare for the interview process. Co-op placements are usually completed during the junior year. Six-month assignments are as follows:

Fall Cycle: July-December

Spring Cycle: January-June

Three-month assignments occur during the regular academic semesters:

Fall: September-December

Spring: January-April

While Summer Co-op is available, the Career Planning office conducts a Summer Jobs Program for those students who wish to obtain summer employment.

Students interested in learning more about the Cooperative Education Program should contact the Co-op Coordinator in Career Planning, 4th floor of the Administration Center, ext. 1075.

URBAN STUDIES AND COMMUNITY SERVICES CENTER

The Urban Studies Center seeks to involve the resources of the University in the larger urban community. Its major programs are: (1) the Community—non-credit adult education designed for area residents, (2) technical assistance to neighborhood groups in grant and program development, and (3) community organization services focused on the needs of the low-income, multi-racial, and ethnic communities bordering the University. The Center also draws upon the experience of neighborhood leaders to enrich its programs and La Salle's Urban Studies curriculum. Students and faculty with urban research and social service interests are encouraged to contact the Center at 215-951-1188.

NURSES' COOPERATIVE PROGRAM

La Salle participates in a cooperative program with a number of area hospitals in teaching the basic sciences to the students from these hospital

schools. The essential program remains under the control of the parent schools. These students receive college credit for those courses attended at La Salle.

PRE-ALLIED HEALTH PROGRAM

La Salle provides students preparing for careers in the allied health professions with courses in the basic sciences and with other courses required by allied health institutions. The prerequisite courses vary with the allied health profession and with the professional schools.

A special agreement with Thomas Jefferson University enables La Salle students to transfer to Jefferson's College of Allied Health Sciences for certain upper division degree programs not available at La Salle. Students who satisfactorily complete their first two years of study at La Salle may apply to transfer to Jefferson to pursue a Bachelor's degree in cytogenetic technology, cytotechnology, dental hygiene, diagnostic imaging, medical technology, occupational therapy, and the entry level Master's degree program in physical therapy.

For more information, students should contact Brother Thomas McPhillips, Holroyd Science Center 202, ext. 1253.

COURSES AT CHESTNUT HILL COLLEGE

The cooperation of La Salle with Chestnut Hill College, a Catholic college for women situated about five miles from La Salle, results in a valuable coordination of programs. Students from either of the associated colleges can register for courses at the other college, with full credits, and without the payment of extra tuition. The calendar for the academic year in both colleges is identical. Students wishing to register for courses offered at Chestnut Hill will follow the same procedure as when they register for courses at La Salle. Classes at Chestnut Hill begin on the hour, at La Salle on the half-hour.

SUMMER SESSIONS

A variety of courses are offered in both day and evening sessions during the summer. Students may use these courses to enrich their academic programs, to lighten their regular schedules, to make up failures, or, in some instances, to accelerate progress toward a degree. The Summer Sessions are administered by the Dean of the School of Continuing Studies.

Properly qualified applicants from other accredited institutions are also admitted to the Summer Sessions.

ARMY RESERVE OFFICERS' TRAINING CORPS PROGRAM

Students at La Salle can participate in Army Reserve Officers' Training Corps (ROTC) through a cross-enrollment agreement with the University of Pennsylvania. The program is open to both male and female students who desire to earn a commission as a Second Lieutenant in the United States Army, Army Reserve, or Army National Guard upon graduation.

Freshman and sophomore students take ROTC basic courses on La Salle's campus and incur no obligation to the U.S. Army by enrolling. Additionally, military science courses are free of charge to all full-time students (minimum of 12 credits, excluding military science courses) and earn academic credits which may be applied towards graduation requirements.

Juniors and seniors enrolled in the Advanced Course take senior level military science courses at the University of Pennsylvania.

ROTC Scholarships pay \$8,000 or 80% of tuition, whichever is greater, \$400 for fees, \$450 for books, plus a \$100 per month non-taxable allowance for ten months per school year. Scholarships are available on a competitive basis. Advancing freshmen and sophomores may compete for two- and three-year scholarships, regardless of whether they are currently enrolled in ROTC. All Advanced Course students receive a non-taxable subsistence allowance of \$100 per month for ten months per school year.

For more information on the program, scholarships, and career opportunities, contact the Department of Military Science, University of Pennsylvania, Philadelphia, PA 19104, (215) 898-7756/7757.

AIR FORCE RESERVE OFFICERS' TRAINING CORPS

La Salle students are eligible to participate in Air Force Reserve Officers' Training Corps (AFROTC) through a cross-enrollment agreement with St. Joseph's University.

All Aerospace Studies courses will be held on the St. Joseph's campus. The AFROTC program enables a college student to earn a commission as an

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Air Force officer while concurrently satisfying requirements for a baccalaureate degree.

For further information on the cross-enrollment program, scholarships, and career opportunities, write or telephone the Professor of Aerospace Studies, AFROTC Det750, St. Joseph's University, Philadelphia, PA 19131, (215) 660-1190.

NAVAL RESERVE OFFICERS' TRAINING CORPS

Through a cross-enrollment agreement with the NROTC unit at the University of Pennsylvania, La Salle students may earn commissions as naval officers while concurrently satisfying requirements for baccalaureate degrees at La Salle. NROTC courses will be held on the campus of the University of Pennsylvania. For further information on this cross-enrollment program or on scholarship aid, write or telephone: Professor of Naval Science, NROTC Unit, University of Pennsylvania, Philadelphia, PA 19104, (215) 898-7436.

UNIVERSITY ATTENDANCE POLICY

Students are expected to attend classes regularly. Absence required to provide for conditions beyond the control of the student, such as illness or serious personal or family situations, should be explained to the instructor. If an absence extends over a protracted period of time, the Office of the Dean of the individual student's school should be notified. Attendance is taken from the first regular class day regardless of the time of registration.

EXAMINATIONS

The last week of each semester is set apart for final examinations. Examinations to measure student progress are given at mid-term. Students who, for satisfactory reasons, fail to take a semester examination as scheduled may take a delayed examination.

GRADES

The following system of grades is used in measuring the quality of student achievement.

A	Superior	I	Incomplete
B	Very Good	W	Withdrawal
C	Average	S	Satisfactory
D	Passable	U	Unsatisfactory
F	Failure	X	Audit

In the determination of final grades for courses, recitations, written assignments, and the results of the final examination are considered.

Incomplete: The I grade is a provisional grade given by an instructor to a student who has otherwise maintained throughout the semester a passing grade in the course, but who has failed to take the semester examination for reasons beyond his control. Make-up examinations for the fall semester must be completed before the opening day of the spring semester. All I grades that have not been removed within three weeks after the last regular examination of the semester become F's. When it is physically impossible for the student to remove this grade within the time limit, he must obtain a written extension of time from the dean of his school.

Withdrawal: The W grade is assigned when a student withdraws from a course with the dean's permission before its completion. Ordinarily, permission for withdrawal is not granted after mid-term examinations.

Satisfactory or Unsatisfactory: Students may take up to two free electives under a pass/fail option. If they indicate this option to the Registrar within three weeks after the course begins, the grade for the course will be recorded as S or U. Such a grade will not affect the cumulative index, but semester hours graded S will be counted toward the total required for graduation. The purpose of this option is to encourage choice of challenging electives, including those outside the student's major field.

Audit: The X grade is assigned for courses audited. After obtaining permission from the course instructor and the dean, a student wishing to audit a course may sign up in the appropriate dean's office before the first day of class.

Courses repeated: If a student repeats a course, only the higher grade is counted in the academic index. A student may not repeat a course more than once without permission from his dean.

CLEP EXAMINATIONS

Students may receive credit for approved courses taught in the La Salle University curriculum through participation in the College Level Examination Program (CLEP) of the College Entrance Examination Board, or through other authorized standardized testing procedures or in-house tests. Students who wish to attempt credit through examination must receive permission from their Dean's Office to determine which ex-

aminations are acceptable to La Salle, and to obtain permission for participation.

While the Academic Dean determines the credits to be granted for CLEP and other authorized standardized testing procedures, the individual department designates the subject examinations which are applicable to specific courses at La Salle University. Students may not be granted credit for a general examination CLEP course after completion of the freshman year, and a student who has received credit through conventional courses or through standardized testing for one or more advanced courses in a discipline may not challenge a beginning course in that discipline. No grades are assigned to courses credited through authorized standardized testing procedures.

Students who elect to receive credit through authorized standardized testing procedures or approved in-house tests will pay an administrative fee of \$45.00 for each course examination taken.

STUDENT RESPONSIBILITIES

A student's matriculation at La Salle University is a voluntary decision which involves acceptance of the responsibility to perform academically and to behave socially in ways consistent with the goals and objectives of the University. When registering at La Salle, the student accepts University rules and regulations and the authority of the University to exercise disciplinary powers, including suspension and dismissal. As a member of student organizations and as an individual, the student assumes responsibility for knowing and complying with all existing regulations in the *University Bulletin*, the *Student Handbook*, *The Resident Student Guidebook*, and any rules and regulations subsequently promulgated through appropriate publication to the University community. Copies of the *Student Handbook* may be obtained from the Student Life Office.

STUDENT REPORTS

A progress report is submitted to the Dean's Office by each instructor at the middle of each term. Final grades are submitted to the Registrar's Office at the end of a semester and these are made part of a student's permanent record. A report of semester grades is mailed to the student within two weeks after final examinations.

SCHOLARSHIP INDEX

A scholarship index system is used at La Salle to determine a student's average grade. In determining the index, each letter grade is ascribed a numerical value, called grade points. A is valued at 4 grade points; B is valued at 3 grade points; C is valued at 2 grade points; D is valued at 1 grade point; F is valued at zero grade points.

A grade point score is calculated for each course by multiplying the numerical equivalent of the letter grade by the number of semester hours. The index, or the average grade of all courses, is found by dividing the sum of the grade point scores for all courses by the total number of semester hours of course work attempted.

ACADEMIC PROGRESS

A full-time student is making adequate progress toward the degree if he or she has:

1. completed within the academic year (fall, spring, and summer) eighteen hours of new course work at satisfactory academic levels as indicated:
 - a) completed freshman status—1.50 or above*
 - b) completed sophomore status—1.75 or above*
 - c) completed junior status—2.00 or above*
 - d) within the senior year—2.00 or above*
2. completed graduation requirements within a maximum of seven years of full-time study.

*See "Classification of Students" on page 27 for definitions of status.

For justifiable reason, exceptions may be determined by the dean.

This policy statement defines the parameters within which the University will define the progress of the student for aid and funding purposes. Since the decisions rest with the granting agencies, "adequate progress" does not guarantee such aid.

DEANS' HONOR LIST

The Deans' Honor List is published at the termination of each semester. Those students who have a cumulative average of 3.4 and above are placed on the Deans' List. To be eligible for this list, a student must have complied with all the requirements of the University and must have earned 24 credits with letter grades A, B, C, or D at La Salle University.

Deans' List students are eligible for courses in the University's Honors Program.

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ACADEMIC CENSURE

Academic censure is intended to be a service to the student who is in academic difficulty. It serves to alert some to the severity of their academic problem and to encourage them to seek help and counsel they need. For others, it is the imposition of a time period away from academic endeavors to permit adjustment of priorities.

Academic censure may assume any one of three forms, depending on the student's academic standing. During the evaluation of student records at the end of each semester, a student will normally be subject to the form of academic censure indicated if the cumulative grade point average falls below the levels outlined.

1. Probation. A student is placed on probation who has attained a cumulative grade point average of (a) less than 1.50 after the first or second term of freshman year, (b) less than 1.75 after the first or second term of sophomore year, (c) less than 1.90 after the first term of junior year, (d) less than 2.00 after the second term of junior year or during senior year. Such a student will be continued on probation until he or she has satisfied the conditions for good academic standing.
2. Suspension. This is involuntary separation of the student from the University for a definite period of time, usually for two semesters. No academic work during a period of suspension will be accepted for a student's academic record at the University.
3. Dismissal. This is involuntary separation of the student from the University for an indefinite period of time. No academic work during a period of dismissal will be accepted for a student's academic record at the University.

A student is liable to suspension or dismissal:

1. when he/she has attained a cumulative scholarship index (a) less than 1.00 after the freshman year, (b) less than 1.50 after the sophomore year, (c) less than 1.90 after the junior year, or
2. when he/she is on probation for two successive semesters.

Decisions on probation will be made following determination of grades after the Fall semester, and after the final La Salle summer session. Decisions on suspension and dismissal will be made on August 1st of each year. Any makeup work must be

completed and grades submitted to the Deans' offices by that date.

CREDIT FOR COURSES TAKEN AT OTHER INSTITUTIONS

Course work taken at other institutions by regularly-enrolled students at La Salle University may not be offered for credit unless the student has had written permission in advance from the dean of his school to take such courses. Credit is transferred only for marks of C or better.

Other policies governing credit for courses at other institutions are:

1. Students must have a minimum 2.00 at La Salle in order to take courses at other schools.
2. Prior to having 60 credits on their La Salle transcript, students are permitted to take required courses (subject to School or Department restrictions) or electives at two-year as well as four-year schools.
3. After 60 credits are on their La Salle transcript, students are permitted to take electives only, and only at four-year schools.

REQUIREMENTS FOR A DEGREE

Students who will complete requirements for a degree in a given semester must make written application for graduation at the time specified by the Registrar. Commencement exercises are held annually in the spring. Diplomas are issued three times a year—on September 15, January 15, and on the date of the Commencement exercises. Students receiving diplomas in September or January are invited to participate formally in the Commencement exercises of the following May.

A candidate for the baccalaureate degree must have completed 120 semester credit hours which satisfy curricular requirements and which include at least 38 courses of 3 credit hours or more.

Certain curricula may require a number of hours exceeding this minimum. In addition to completing the required number of courses and hours, the student must also:

1. have obtained a C average or cumulative index of 2.00 in the total program of studies,
2. have fulfilled all course requirements controlled by the major department with a C average or a cumulative index of 2.00 in those courses,
3. have fulfilled the Foundation and Core Requirements.
4. Students are required to take their last 24 credits at La Salle.

Requirements for a second Bachelor's Degree:
La Salle will award either a B.A. or a B.S. degree to a student who has already earned a bachelor's degree from an accredited institution if these conditions are met:

1. The student will obtain written permission from the appropriate dean and chair.
2. If the student holds a bachelor's degree from La Salle, he or she will meet substantial requirements for the major as determined at the time the student matriculates in the second degree program. A minimum of 30 credit hours would be required.
3. If the student holds a bachelor's degree from another institution, a maximum of 70 credit hours may be transferred toward the second degree. The student must fulfill all core requirements as well as substantial requirements of the major as determined at the time the student enrolls in the second degree program.
4. The student is required to take the last 24 credits at La Salle.

HONORS

The bachelor's degree with honors is conferred on a student who has completed his or her courses at the University with an average of all marks not lower than 3.4 and who has not incurred the penalty of loss of good standing for disciplinary reasons.

The candidate for the bachelor's degree who has earned an average of 3.8 in all courses is graduated with the distinction *Maxima Cum Laude*.

The candidate who has earned an average of 3.6 is graduated with the distinction *Magna Cum Laude*.

The candidate who has earned an average of 3.4 is graduated with the distinction *Cum Laude*.

WITHDRAWALS

A student who withdraws from the University must submit a withdrawal notice to the dean of his school. The date of filing the withdrawal notice is considered as the date of withdrawal in all cases. Resident students must also notify the Resident Life Office.

TRANSCRIPTS

Students may apply at the Registrar's Office for a transcript of their collegiate work. Official transcripts bearing the signature of the Registrar and the seal of the University are sent, at the request of the student, to other institutions and organizations.

Students requesting transcripts for their own use are given copies marked "student copy." Each student is sent a copy of his or her transcript at the time of graduation. A fee of \$2.00 is charged for an official transcript. The University requires at least one week's notice for the issuance of transcripts. No transcripts can be issued until all financial obligations to the University have been satisfactorily settled.

GRADUATE PROGRAMS

In addition to the undergraduate degree programs described in this *Bulletin*, La Salle offers Master's degree programs that are nationally known for their innovative and practical approach to graduate education. The programs are designed to accommodate the busy professional who is looking for part-time study. For more information or for a copy of the *Graduate Bulletin*, refer to the phone numbers listed below.

- ♦ Master of Business Administration
(215/951-1057)
- ♦ M.A. in Bilingual/Bicultural Studies
(215/951-1561)
- ♦ M.A. in Central and Eastern European Studies
(215/951-1200)
- ♦ M.A. in Computer Information Science
(215/951-1130)
- ♦ M.A. in Education
(215/951-1196)
- ♦ M.A. in Human Services Psychology
(215/951-1767)
- ♦ M.A. in Pastoral Counseling
(215/951-1350)
- ♦ M.A. in Professional Communication
(215/951-1155)
- ♦ M.A. in Theological and Pastoral Studies
(215/951-1350)
- ♦ M.S. in Nursing
(215/951-1430)

Arts & Sciences



The School of Arts and Sciences offers general or liberal arts programs and programs in science and mathematics. Within these two areas you may further specialize in a major field of study. In the liberal arts, the Bachelor of Arts degree is offered in art history, communication, economics, English, foreign languages, history, music, philosophy, political science, religion, and sociology. Concentration in the science area may lead to a B.A. degree in biochemistry, biology, chemistry, computer science, geology, mathematics, physics, or psychology, or a B.S. degree in computer science.

The School also offers programs designed as preparation for health professions, law, public administration, teaching, social work, and work in criminal justice. The Bachelor of Social Work degree is conferred upon social work graduates.

PREPARATION FOR THE HEALTH PROFESSIONS

Students preparing for careers in the health professions (medicine, dentistry, veterinary medicine, podiatric medicine, optometry) generally major in biology or chemistry, but may elect to major in any program provided they schedule the required minimum science and mathematics courses to support their applications. The courses specified by the Association of American Medical Colleges for Medical School applicants are generally applicable as minimal requirement for any of the health professions.

They are:

Chemistry	12-16 semester hours
Physics	8 semester hours
Biology	8 semester hours
Mathematics	0-6 semester hours

Most professional schools will accept these as minimal preparation, but recommend additional courses. Students should be alert to the fact that professional schools are interested in demonstration of aptitude in science and mathematics, and the courses taken must be those normally rostered by majors in these areas, not courses offered for non-major election.

In the normal review process in these schools, the applicant's full undergraduate record is scrutinized. The strong liberal arts component in the La Salle curriculum will provide evidence of broad interest and rounded academic development. Evidence of leadership and active interest in associated activities will lend strong additional support to applications.

Normally the competition for placement in these programs results in high acceptance standards.

Grade point averages ranging from 3.0 to 3.5 are representative of levels expected in these programs. Students are encouraged to consult with the health professions advisor concerning admissions criteria at various schools.

PREPARATION FOR TEACHING

The teacher preparation program leads to eligibility for an Instructional I certificate to teach in either the elementary or secondary schools or to teach mentally and/or physically handicapped students in the elementary and secondary schools of Pennsylvania. The Pennsylvania Department of Education has granted program approval in the preparation of teachers of biology, chemistry, communication, earth and space science, elementary education, English, French, German, Italian, Latin, mathematics, physics, Spanish, special education, and comprehensive social studies. Students who satisfactorily complete the University's requirements in these areas are recommended by the Education Department faculty for a teaching certificate. Those planning to teach outside of Pennsylvania should familiarize themselves with certification requirements elsewhere.

The Education Departmental Board, consisting of faculty members from the Education Department, one faculty representative for each of the subject areas of teacher preparation, and student representatives in the teacher preparation program, makes final intradepartmental decisions on planning, conducting, and evaluating the teacher preparation program. The University's Career Planning and Placement Bureau aids graduates in obtaining positions.

For details on specific requirements in each area of certification, please see the director of the appropriate program (elementary and special education, or secondary education).

PREPARATION FOR LAW

Law schools do not prescribe particular curricula for admissions. La Salle University, therefore, approaches the preparation for law on an individualized basis, tailoring the program of each student to individual needs and desires. Thus, students may major in English, political science, history, etc., as preparation for law.

The Pre-Law Program offers the student a coordinated approach to course selection, preparation for the Law School Admission Test (LSAT), and both

Degree Programs

academic and admissions counseling. In addition, it provides many programs and panel discussions through the St. Thomas More Pre-Law Society. Pre-Law advisor for the School of Business Administration is Professor David Culp. Professor Gerard Downey serves as advisor for the School of Arts and Sciences. Students are encouraged to contact either professor if they are interested in a career in law.

PREPARATION FOR CRIMINAL JUSTICE PROFESSIONS

Students preparing for careers in criminal justice professions pursue a curriculum which combines liberal arts with intensive coursework in the behavioral and social sciences and specialized courses in criminal justice. A major in criminal justice qualifies the student for admission to graduate programs in criminal justice and prepares the student for entry-level positions in law enforcement, judicial administration, probation, parole, and correctional administration.

PREPARATION FOR SOCIAL WORK

The primary objective of the social work program is to prepare competent, generalist practitioners for entry-level positions in the social work profession. Building on a liberal arts foundation, a knowledge of basic social work theory, values, and skills is acquired. The student explores the biological, psychological, social, economic, and political phenomena that have an impact on people. There is a heavy emphasis on the development of skills needed to mobilize systems and resources for the enhancement of individual and family social functioning, for the humanizing of institutions, and for the promotion of social change.

A secondary objective of the program is to prepare students for graduate studies in social work and other human service professions. To this end, a firm theoretical base is laid to support advanced study.

Graduates of the program have developed careers in both public and voluntary agencies, industry, and education. Graduates are in such fields as child welfare, family services, mental health, corrections, aging, and public welfare. Many graduates choose to go on to graduate school either directly or after having gained work experience.



THE CORE CURRICULUM

The Core Curriculum provides you with an opportunity to build a strong foundation for the future. It encourages you to work out a system of values rooted in the best thinking of the great minds of the past and present.

Whatever your eventual major, your core courses will have allowed you to acquire a basic body of knowledge and habits of thinking that are independent of career interests. The Core Curriculum at La Salle has been revised after several years of study and debate on the part of students, faculty, and administrators. The curriculum will give you a real advantage as you attempt to build your life and your career after graduation. It will help you *learn how to learn* by giving you experience in researching information, understanding relationships, and communicating effectively with others.

While the Core allows you some freedom of choice, it includes guidelines which should provide coherence in your college education. The Core Curriculum prepares you to adapt to the ever-changing world by exposing you to a well-thought-out plan aimed at encouraging four years of intellectual and personal growth. The Core Curriculum consists of three parts: Foundation, Core I, and Core II.

Foundation Courses (7-9 courses, normally completed by end of sophomore year)

These courses are most directly related to the liberal education approach that is basic to La Salle's aims and traditions. Depending upon your previous preparation, you will take foundation courses in writing, literature, history, computer science, philosophy, science, religion, and social science. The writing and computer science courses are intended to give you the tools you need; the others will acquaint you with some of the best that has been written or thought in each field. The University may waive a writing course or a computer science course if your background so warrants. Foundation courses may not be used to fulfill any other curricular requirement (core, major, or elective). However, an individual Foundation course may be waived for a student majoring in a department represented in the Foundation area.

Core I Courses (6 courses, normally completed by end of junior year. Foundation courses may not satisfy this requirement unless required by your major department.)

These courses are an opportunity to build upon the foundations you have in place.

In Core I A, you take three courses in Religion and Philosophy (two in one subject and one in the other).

In Core I B, you also take a sequence of three courses in one of these:

- History
- Fine Arts (Art or Music)
- Foreign Languages (Classical languages, French, German, Italian, Russian, Spanish)
- Literature

Each sequence has been planned by the individual department to provide growth in the knowledge and skills of that subject.

Core II Courses (2 courses from a subject or combination of subjects listed below. May not be in your major subject or in the subject you chose for your Core I sequence.)

- Fine Arts (Art or Music)
- Foreign Language (Must be in same language.)
- History
- Literature
- Social Science (Economics, Psychology, Political Science, Sociology)

MAJOR REQUIREMENTS

Requirements for majors in each department are listed along with that department's course descriptions in this catalog. All students are required to take a writing emphasis course in their major discipline at the Junior/Senior level.

FREE ELECTIVES

Students may choose to concentrate free electives in a particular discipline to build a minor or may use these electives to diversify their background or broaden their interests. Students may not take additional Foundation courses as electives in satisfaction of graduation requirements without express permission from the Dean's Office. Such permission will be granted only in the following exceptional cases: (1) In the event that a course serves both as a foundation course and as the introductory course to a discipline in which the student intends to do additional work. (2) For some defensible academic reason acceptable to the Dean. No more than two free electives may be taken on a pass/fail basis.

Curriculum

DESIGNATED MINORS

A student may designate up to two minors, which will be officially recorded on the transcript as minors. The School of Arts and Sciences offers minors in the following disciplines: art history, biochemistry, biology, chemistry, communication, computer science, criminal justice, economics, education, English, foreign language, geology, history, mathematics, music, philosophy, physics, political science, psychology, religion, sociology.

Special minors are also available in Asian Studies, Business Administration, Central and Eastern European Studies, Environmental Studies, Health Care Administration, International Studies, Justice and Society Studies, Life Science, Risk Management and Insurance, Urban Studies, and Women's Studies.

Requirements: To minor in a discipline listed above, you must complete six courses within the discipline (not counting Foundation courses). Courses used to meet Core I or Core II requirements may also be used in constructing a minor. At least two of the six must be at the 300-400 level. No more than two may be at the 100-level. The remaining two or three may be at the intermediate level.

The requirements for the special minors are listed in their proper alphabetical positions in the Course Descriptions section of this catalog.

MODEL ROSTER—ARTS & SCIENCES

FRESHMAN YEAR

Fall	Spring
Major Course	Major Course
Major Course or Elective*	Major Course or Elective*
Writing or Foundation	Writing or Foundation
Literature or Computer	Literature or Computer
Science Foundation	Science Foundation
Religion or Philosophy	Religion or Philosophy
Foundation	Foundation

SOPHOMORE YEAR

Fall	Spring
Major Course	Major Course
Major Course or Core	Major Course or Core
Science or	Science or
Other Foundation	Other Foundation
Core Course	Core Course
Core Course	Core Course

JUNIOR YEAR

Fall	Spring
Major Course	Major Course
Major Course	Major Course
Core Course	Core Course
Core or Elective*	Core or Elective*
Elective*	Elective*

SENIOR YEAR

Fall	Spring
Major Course	Major Course
Major Course	Major Course
Major or Elective*	Major or Elective*
Elective*	Elective*
Elective*	Elective*

*Elective Courses in the Freshman and Sophomore years should be used to complete the Core. Elective Courses in the Junior and Senior years should be used to complete dual majors, minors, or for personal enrichment.

PROGRESS RECORD

FOUNDATION (7-9 courses)

- | | |
|----------------------------------|--|
| 1. Writing I ¹ _____ | 6. Social Science _____ |
| 2. Writing II _____ | 7. History _____ |
| 3. Literature ² _____ | 8. Science _____ |
| 4. Religion _____ | 9. Computer Science ³ _____ |
| 5. Philosophy _____ | |

¹May be waived by decision of the University before you begin course work.

²May be in English or in Foreign Language Literature in English translations.

³May be waived by challenge examination before you begin course work.

CORE I (6 courses)

IA(3 courses)

Religion and Philosophy

1. REL _____
2. PHL _____
3. REL or PHL _____

IB (3 courses from any one of these disciplines)

Fine Arts History Foreign Language Literature

1. _____
2. _____
3. _____

CORE II

(2 courses from one discipline or from a combination of disciplines)⁴

Fine Arts Literature Foreign Languages⁵

Social Science History

1. _____
2. _____

⁴Also approved to fulfill Core II requirement: COM 202, 204, and 254; EDC 201 and 203.

⁵Both courses must be in same foreign language.

MAJOR COURSES

- | | |
|----------|-----------|
| 1. _____ | 9. _____ |
| 2. _____ | 10. _____ |
| 3. _____ | 11. _____ |
| 4. _____ | 12. _____ |
| 5. _____ | 13. _____ |
| 6. _____ | 14. _____ |
| 7. _____ | 15. _____ |
| 8. _____ | |

ELECTIVES

- | | |
|----------|-----------|
| 1. _____ | 6. _____ |
| 2. _____ | 7. _____ |
| 3. _____ | 8. _____ |
| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

Areas of Study

Key:

(F)—Offered in Fall term;
 (S)—Offered in Spring term;
 (F, S)—Course may be rostered in either Fall or Spring term. The year is indicated if the course is offered in alternate years. When a course number has been changed this year, the former number is given in parenthesis. Courses approved for Foundation, Core I (3-course sequence) or Core II (2-course option) are so indicated. Courses listed in this section are subject to change through normal academic channels. New courses and changes in existing course work are initiated in the departments and approved by the curriculum committee consisting of faculty, student, and administrative representatives.

✎ identifies courses that have been designated as writing intensive.

ART HISTORY

(See Fine Arts.)

ASIAN STUDIES MINOR

Directed by: Charles Desnoyers, Ph.D., History Department

REQUIREMENTS

Asian Studies minors must take six courses, including a two-course sequence of an Asian language.

ECONOMICS

- ECN 330
- Senior Seminar: Economics of the Pacific Rim

FINE ARTS

- ART 207
- ART 208

FOREIGN LANGUAGES

- JPN 101-102
- JPN 150
- JPN 260

(Please Note: In order to fulfill the language requirement, students must take either 101-102, 101-260, 102-260, or 150-260.)

HISTORY

- HIS 103, 203, 303
- HIS 346
- HIS 350
- HIS 351
- HIS 352
- HIS 353
- HIS 370-371*
- HIS 447
- Seminar in Modern Chinese History

*For Asian Special Topics only

HONORS

- HON 245
- HON 443
- HON 458

(Please Note: Students taking 245, 443, 458 must obtain permission from the Honors Director.)

LITERATURE (in translation)

- LIT 270

MANAGEMENT

- MGT 371

RELIGION

- REL 240
- REL 340
- REL 341

BILINGUAL/BICULTURAL STUDIES

- Vietnamese 531
- Khmer 541

(Please Note: 531 and 541 require the permission of the Director of Bilingual/Bicultural Studies.)

BIOLOGY

FACULTY

Annette O'Connor, Ph.D., *Chair Professor*: McPhillips
Associate Professors: Belzer, Franz, Mickle, Muldoon, Seitchik
Assistant Professors: Ballough, O'Connor, Shurina

FOUNDATION COURSES

BIO 154, 155, 156

REQUIREMENTS

Required for Major in Biology:

- BIO 210, 220, 230, 325 and 412, and additional biology courses to total a minimum of 33 credit hours.
- BIO 210 is a prerequisite for all higher courses. BIO 210, 220 and 230 form a "core." Normally, these courses are taken in this order and must be successfully completed before registering for higher level courses.
- CHM 111-112, 201-202
- PHY 105-106
- MTH 120

(Please note: 100-level biology courses do not fulfill biology major requirements; college chemistry is a prerequisite for 300/400-level BIO courses.)

Required for Minor in Biology:

- BIO 210, 220, 230
 - 3 additional courses from the 300/400 level (these courses must be approved by the Biology Department Chairperson)
- (Please note: 100-level biology courses do not fulfill biology minor requirements. BIO 210 is a prerequisite for all higher numbered BIO courses; college chemistry is a prerequisite for 300/400-level BIO courses.)

Required for Life Science Minor:

- CHM 111 or 161
 - BIO 210
 - 4 additional biology courses from the 160/200/300/400 level with at least two from the 300/400 level (these courses must be approved by the Biology Department Chairperson)
- (Please note: BIO 210 is a prerequisite for all higher numbered BIO courses; college chemistry is a prerequisite for 300/400-level BIO courses.)

Required for Major in Secondary Education/Biology

- MTH 120
- PHY 105-106
- CHM 111-112 and 201-202
- BIO 210, 220, 230
- A minimum of 4 additional BIO courses from the 300/400 level (these courses must be approved by the Biology Department Chairperson)

(Please note: 100-level biology courses do not fulfill BIO requirements.)

Non-biology majors planning to elect 200/300/400-level BIO courses must secure the permission of the Biology Department Chairperson.

COURSE DESCRIPTIONS

BIO 154 (F, S)
ECOLOGY AND ENVIRONMENTAL ISSUES
3 credits **Foundation**

Lectures, visuals, and demonstrations to introduce basic ecological principles and environmental issues from a scientific and sociological viewpoint. Topics include: ecosystems, trophic levels and food webs, populations, natural resources, and pollution. Three hours lecture, no laboratory.

BIO 155 (F, S)
LIFE BEFORE BIRTH
3 credits **Foundation**

Lectures, visuals, demonstrations, and student investigation will illustrate the sequential formation of the human body from production of the reproductive cells, through fertilization and organ formation, to birth. In addition, common developmental problems and their causes will be discussed. Three hours lecture, no laboratory.

BIO 156 (F, S)
HUMAN GENETICS
3 credits **Foundation**

Lectures, supplemented with visuals and demonstrations to illustrate the

general principles of genetic transmission and their application. Discussion of currently developing technologies and procedures for genetic control which might have an impact on humans and of problems arising from gene and/or chromosomal abnormalities. Three hours lecture, no laboratory.

BIO 161-162 (F, S)
ANATOMY AND PHYSIOLOGY
4-8 credits

A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. Intended for Allied Health students. Three hours lecture, two hours laboratory; two terms.

BIO 163 (F, S)
CLINICAL MICROBIOLOGY
4 credits

Structure, growth, and identification of medically important microorganisms; role of specific pathogens in the etiology of human disease; immunology; chemotherapeutic and antibiotic control of infectious diseases. Intended for Allied Health students. Three hours lecture, two hours laboratory.

BIO 165 (F, S)
NUTRITION
3 credits

An introduction to the nutritional composition of foods, the functions of the nutrients in normal human physiology, and the importance of a well-balanced diet. The topics of world malnutrition, food economics, sanitation, and the relationship of food selection based on ethnic, religious and other factors are addressed. Intended for Allied Health students. Three hours lecture.

BIO 210 (F, S)
CELLULAR BIOLOGY AND GENETICS
4 credits

An introduction to the principles of cellular and molecular biology and genetics. Topics include basic biochemistry, cell structure and function, cellular reproduction,

molecular and classical genetics. Three hours lecture, two hours laboratory. Prerequisite: high school or college chemistry.

BIO 220 (F, S)
STRUCTURE AND FUNCTION OF ORGANISMS
4 credits

An introduction to the principles of plant and animal form and function. Emphasis will be placed on the correlation of structure and function of the major organ systems of plants and animals. Laboratory sessions will focus on physiological phenomena. Three hours lecture, two hours laboratory.

BIO 230 (F, S)
DIVERSITY, EVOLUTION AND ECOLOGY
4 credits

An integrated study of evolutionary principles and mechanisms, the diversity of life, ecosystem structure and dynamics, human interaction with ecosystem components, and the biological basis of behavior. Three hours lecture, two hours laboratory.

BIO 301 (F)
COMPARATIVE VERTEBRATE ANATOMY
4 credits

Comparative systemic anatomy of the vertebrate classes; hypotheses of origin and radiation of the phylum Chordata. Laboratory dissections of representative Chordates from amphioxus to mammal. Two hours lecture, four hours laboratory.

BIO 303 (F, S)
MICROBIOLOGY
3 credits

Structure, growth, identification, and control of microorganisms of major medical, environmental, and industrial importance; molecular control and genetics of bacteria and viruses; immunology; microbial pathogenesis; epidemiology of infectious diseases of humans. Two hours lecture, two hours laboratory.

Areas of Study

BIO 305 (F)

GENERAL PHYSIOLOGY

3 credits

A lecture-laboratory course that examines the metabolic processes and associated physiochemical phenomena of vertebrates. Current hypotheses of neural, endocrine, respiratory, cardiovascular and digestive physiology will be studied. Two hours lecture, two hours laboratory.

BIO 306 (S)

NEUROMUSCULAR PHYSIOLOGY

3 credits

A lecture-laboratory study of the nervous system and its interaction with the muscular system of vertebrates. Two hours lecture, two hours laboratory.

BIO 308 (F)

METHODS IN BIOLOGICAL RESEARCH

3 credits

A laboratory course designed to give hands-on experience in proper use of laboratory equipment, care of laboratory animals, common histological and cytological techniques, tissue culture, use of radioisotopes in research and experimental design; for students interested in a research career. One hour lecture, four hours laboratory. Permission of Chair required.

BIO 310 (S)

GENETICS

3 credits

An introduction to genetics at the molecular, cytological and organismal level. Included are the thorough coverage of Mendelian and other basic transmission genetics phenomena in the light of our knowledge of DNA and cell structure and function; Mutation and Mutogenesis; and an introduction to Recombinant DNA. Two hours lecture, two hours laboratory.

BIO 312 (F)

RADIOBIOLOGY

3 credits

Theory of the production, detection, and measurement of ionizing radiations; use of ionizing

radiations in research and medicine; effect of ionizing radiations on life forms. Two hours lecture, two hours laboratory.

BIO 314 (S)

BIOMETRICS

3 credits

Analysis of experiments and research data in quantitative biology. Descriptive and inferential statistics, including: probability distributions, analysis of variance, regression and correlation. Three hours lecture.

BIO 315 (S)

PLANT PHYSIOLOGY

3 credits

Metabolic and physical processes of plants. Emphasis on photosynthesis, photorespiration, mineral nutrition, transpiration, phloem transport, intermediary metabolism, and hormonal activity. Recommended prerequisite: BIO 203. Two hours lecture, two hours laboratory.

BIO 316 (S)

PLANT ANATOMY

3 credits

Structure of plant tissues and organs, particularly those of higher vascular plants. Emphasis on vegetative organs, but reproductive organs are discussed. Structure correlated with function and/or habitat. Recommended prerequisite: BIO 203. Two hours lecture, two hours laboratory.

BIO 317 (S)

INVERTEBRATE ZOOLOGY

4 credits

Life processes, phylogenetic advances, and basic classification of the major pre-chordate phyla with emphasis on their evolution and ecology. Three hours lecture, two hours laboratory.

BIO 318 (F 1996, 1998)

EVOLUTION

3 credits

A presentation and analysis of the evidence for the evolution of life. Major topics include the origin of life and cellular organelles as well as the development of the diversity of life present today. Heavy emphasis

on the ideas of Charles Darwin as expanded and modified by evidence from modern population genetics, cytogenetics and molecular biology. Three hours lecture.

BIO 319 (S)

THE PLANT KINGDOM

4 credits

Functional anatomy, phylogeny, and basic systematics of non-vascular and vascular plants. Three hours lecture, two hours laboratory.

BIO 325 (F, S)

MOLECULAR BIOLOGY

3 credits

A survey course that will examine the basic concepts of molecular biology. Topics include mechanisms and regulation of DNA replication, transcription and translation, recombinant DNA technology, molecular aspects of gene interaction and recombination, cellular transformation, and the molecular biology of the nervous and immune systems. Three hours lecture (taken alone or concurrently with BIO 326).

BIO 326 (S)

MOLECULAR BIOLOGY LABORATORY

1 credit

This course focuses on exercises that emphasize the basic techniques currently utilized in molecular biology. Students will isolate, clone, and characterize a bacterial gene. Laboratory techniques will include gel electrophoresis, restriction endonuclease digestion analysis, nucleic acid purification and identification, genetic recombination, molecular cloning, recombinant selection, and ELISA. Three hours laboratory. Corequisite or prerequisite: BIO 325.

BIO 400 (F)

MARINE BIOLOGY

3 credits

A contemporary view of the dynamics establishing community structure in pelagic, estuarine,

mangrove tidepool, coral reef, hydrothermal vent, and intertidal ecosystems. Structural, functional, behavioral, and adaptive modifications of marine organisms will be examined. Three hours lecture; field trip(s) typically included.

BIO 401 (F)
TAXONOMY OF THE SEED PLANTS

3 credits

A survey of seed forming plants with emphasis on flowering plants. Lectures emphasize the principles of identification, classification, systematics as well as economic importance of selected families of seed plants. Two hours lecture, two hours laboratory.

BIO 402 (F)
CELL BIOLOGY

3 credits

Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Two hours lecture, two hours laboratory.

BIO 403 (F)
PRINCIPLES OF ECOLOGY

3 credits

Basic concepts of ecology and a broad introduction to overall biosphere functioning. Major topics include energy flows; nutrient cycles; environmental conditions and their importance; Plants and animals at the individual, population and community level; and the overall functioning and development of the major terrestrial and aquatic ecosystems. Three hours lecture.

BIO 404 (S 1995, 1997)
FIELD ECOLOGY

3 credits

Project laboratory at La Salle Penllyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Prerequisite: BIO 403. Six hours laboratory and field work.

BIO 405 (S)
HISTOLOGY

4 credits

An examination of the minute and ultra structure of mammalian primary tissues together with their functional relationships in the formation of major organ systems; histological basis of function is stressed. Three hours lecture, three hours laboratory.

BIO 406 (S)
DEVELOPMENTAL BIOLOGY

3 credits

The molecular and genetic analysis of development and differentiation. Some descriptive morphogenesis is considered. Two hours lecture, two hours lab.

BIO 412 (F)
BIOCHEMISTRY

4 credits

The course demonstrates the principles of basic biochemistry while focusing on the interrelationships between those biochemical pathways which provide energy and those which provide the basic molecular species for synthesis. Topics include bioenergetics, low molecular weight biosynthesis, enzyme function and kinetics, metabolic control. Three hours lecture, three hours laboratory.

BIO 470 (F, S)
SPECIAL TOPICS IN BIOLOGY

3 credits

Periodically, a course will be offered that deals in detail with a topic of interest in current biological research. Students may be asked to write library research paper(s) and present a seminar.

BIO 480-481 (F, S)
BIOLOGICAL RESEARCH

3 credits

For election by qualified students contemplating advanced studies. Intended to provide actual research experience under staff supervision. Permission of Chair required. Hours to be arranged.

CENTRAL AND EASTERN EUROPEAN STUDIES MINOR

Directed by: Leo D. Rudnytzky, Ph.D.,
Foreign Languages and Literatures
Department

REQUIREMENTS

Component I—Foreign Language Competency

A student may demonstrate this competency and fulfill the requirements through one of the following:

- Fulfillment of the University's two-course sequence in either German or Russian. (This student is required to roster four field courses.)
- Fulfillment of the University's three-course sequence in either German or Russian. (This student is required to roster three field courses.)
- Participation in the German or Russian major programs. (This student is required to roster six field courses.)
- Native fluency in an Eastern European language within the scope of our focus. (This student is required to roster six field courses.)

Component II—Field Information
To complete the minor, a student must select the appropriate number of courses (two of which must be at the 300 or 400 level) from the following list:

- ECN 231, 412
- GER 320
- HIS 240, 248, 452
- PHL 305
- POL 240, 322
- RUS 241-242, 245-246
- SLA 320
- Special Topics (as approved by the Director)

Areas of Study

CHEMISTRY/ BIOCHEMISTRY

FACULTY

George M. Shalhoub, Ph.D., *Chair*
Associate Professors: Cichowicz, Jones,
Price, Shalhoub, Straub
Assistant Professor: Hintz
Lecturer: Polek

FOUNDATION COURSE

CHM 150

REQUIREMENTS

Required for Major in Chemistry:

- CHM 111-112, 201-202, 212, 301-302, 311, 320, 403, 411
- MTH 120, 221 (It is strongly suggested that chemistry majors begin with Mathematics 120 as freshmen.)
- PHY 105-106

Required for Major in Biochemistry:

- Requirements are identical to those for chemistry major, with the addition of CHM 412.

The department suggests that all majors have at least 400 hours of lecture and 500 hours of laboratory work, CSC 152, a second computer-based course, and/or a reading knowledge of a foreign language. Advanced work in chemistry and research experience are recommended. This additional work may qualify a major for accreditation by the American Chemical Society. The chemistry program is accredited by the American Chemical Society.

COURSE DESCRIPTIONS

CHM 111-112

GENERAL CHEMISTRY

4-8 credits

A general course based on physical principles; emphasis on elementary thermodynamics with applications

to gases, solutions, heats of reaction, electrochemistry, ionic and non-ionic equilibria. Concepts of elementary quantum mechanics applied to spectral concepts and the theory of the chemical bond. Reaction kinetics applied to reaction mechanisms. Descriptive chemistry of the representative elements and transition metal complexes. Laboratory examines qualitative and quantitative aspects of chemistry. Three hours lecture, three hours laboratory.

CHM 150 (F, S)

CONSUMER CHEMISTRY

3 credits

Foundation

A non-mathematical examination of the development of fact and theory in chemistry and the utilization of chemistry by society. Topics may include energy, pharmaceuticals, environmental effects, food additives, and synthetic materials. No prior knowledge of chemistry required.

CHM 161 (F)

CHEMISTRY OF THE LIFE SCIENCES

4 credits

A terminal course for students who wish to obtain a general knowledge of chemistry with emphasis on the processes in the body and in nature. Descriptive and some quantitative principles discussed. Three hours lecture, three hours laboratory.

CHM 201-202

ORGANIC CHEMISTRY

4-8 credits

Chemistry of carbon compounds with emphasis on structure, stereochemistry, synthesis and reaction mechanisms. Application in allied fields. Laboratory introduces techniques involved in organic synthesis, analysis, and study of reaction mechanisms. Intended for majors in chemistry, biology, and all students pursuing careers in the health professions. Prerequisites: CHM 111-112. Three hours lecture, three hours laboratory; two terms.

CHM 212 (305) (S)

QUANTITATIVE ANALYSIS

4 credits

Neutralization, oxidation-reduction, chemical equilibria, colorimetry, and the methods of quantitative chemical analysis. Thorough training in volumetric, gravimetric, and colorimetric techniques. Two hours lecture, six hours laboratory. Prerequisite: CHM 112.

CHM 301 (F)

PHYSICAL CHEMISTRY I

4 credits

Elucidation of the principles of thermodynamics and kinetics as applied to gases, liquids, solids, and solutions. Discussion of chemical equilibrium and thermochemistry. Prerequisites: CHM 111-112, MTH 221. Three hours lecture, three hours laboratory.

CHM 302 (S)

PHYSICAL CHEMISTRY II

4 credits

Quantum mechanics applied to the solution of elementary systems. Discussion of atomic and molecular structure, chemical bonding, spectroscopy, laser chemistry, and photochemistry. Prerequisite: CHM 301. Three hours lecture, three hours laboratory.

CHM 306 (S)

QUANTUM CHEMISTRY

3 credits

Chemical applications of group theory and quantum mechanics applied to molecular structure. Discussion of spectroscopic selection rules, symmetry and chemical bonding, and the spectroscopy of transition metal complexes. Prerequisite: CHM 302 or permission of the instructor. Three hours lecture.

CHM 311 (F)

INSTRUMENTAL ANALYSIS

4 credits

Theory and practice of physical measuring instruments with particular attention to modern trends in analytical chemistry. Prerequisites: CHM 301, 212. Two hours lecture, six hours laboratory.

CHM 320 (401) (F)
ORGANIC LABORATORY
METHODS

4 credits

A course in current methods of organic synthesis with emphasis on the separation and identification of reaction products. A one-hour lecture per week devoted to advanced spectral methods as applied to structure determination. One hour lecture, seven hours laboratory per week. Prerequisites: CHM 201-202.

CHM 403 (F)
ADVANCED INORGANIC
CHEMISTRY

4 credits

Theoretical aspects of chemical bonding, descriptive chemistry trends relative to the periodic table, molecular structure and symmetry of molecules, and general discussion of the transition metals, their complex ions, and their organometallic chemistry. Prerequisites: CHM 201-202, 301-302. Three hours lecture, three hours laboratory.

CHM 404 (S)
ADVANCED ORGANIC TOPICS

3 credits

Designed to extend the knowledge of organic chemistry; emphasis on those topics not fully developed in the elementary course. An introduction to the literature of chemistry is also included. Prerequisites: CHM 201-202, 301. Three hours of lecture.

CHM 411 (308) (F)
BIOCHEMISTRY I

4 credits

The chemistry of carbohydrates, fats, proteins, vitamins, enzymes, and hormones; emphasis on their roles in biochemical processes. Laboratory work illustrates common techniques used to prepare, identify, and assay biochemical materials. Prerequisites: CHM 201-202, 301. Three hours lecture, three hours laboratory.

CHM 412 (409) (S)
BIOCHEMISTRY II

4 credits

The storage, transmission and expression of genetic information, recombinant DNA methodology, and physiological processes at the molecular level will be explored. Laboratory work will illustrate techniques necessary to acquire information presented in lecture. Prerequisite: CHM 308.

CHM 450 (F, S, Summer)
COOPERATIVE CHEMICAL
EDUCATION

3 credits

A cooperative experience between the chemistry department and chemical industry to provide on-the-job training in fields relating to chemistry and industry. On approval of the Chair only.

CHM 470 (F, S)
SPECIAL TOPICS

3 credits

Courses in "Polymers and Polymer Coatings" and in "Chemical Marketing" are offered as Special Topics in the Evening Division and are open to day students.

CHM 480 and/or 481 (F, S)
CHEMICAL RESEARCH

4-8 credits

Individual laboratory or theoretical work under supervision of a staff member. Restricted to chemistry majors. Hours to be arranged.

COMMUNICATION

FACULTY

Gerard F. Molyneaux, F.S.C.,
Ph.D., *Chair*

Professor: Molyneaux

Associate Professors: Goedkoop, Wine

Assistant Professors: Hall, Kirk,

MacLeod, Schoening, Texter

Lecturers: Asch, Barbera, Fuller,

Lyons, MacLeod, O'Neill, Perrello

Instructor: Smith

CORE COURSES

Approved courses for Core II:
COM 202, 204, and 254.

REQUIREMENTS

Required for Major in
Communication: 15 courses

COMMUNICATION CORE:
(6 courses)

- COM 201, 202, 203, 204, 205,
254.

TRACKS: (5 courses)

- Human Communication Track:
COM 312, 315, 316, 311 or 313 or
314, 410.
- Mass Communication Track:
COM 301, 302 or 303, 304, 305,
404.
- Public Relations Track: COM 307,
312, 316, 357, 407.
- Writing Track: At least three from
COM 206, 302, 303, 357. The
remaining one or two from ENG
303, 307, 318, 409, 410.

ELECTIVES: (3 courses)

- Three Communication electives,
at least two of which must be from
other Communication tracks.

CAPSTONE COURSE:

- COM 400

Areas of Study

COURSE DESCRIPTIONS

Communication Core

COM 201 (F, S)
INTRODUCTION TO MASS MEDIA
 3 credits
 Investigation of newspapers, magazines, radio, television, and film as mass media. Influence of the medium on content. Internal and external efforts at regulation.

COM 202 (F, S)
INTERPERSONAL COMMUNICATION
 3 credits **Core II**
 Through lectures, demonstrations, and laboratory experiences, students learn current theories of communication and improve their skills in communicating personally and through media. Group and individual analysis of the dynamics of communication processes.

COM 203 (F, S)
AUDIO/VIDEO PRODUCTION: THEORY AND PRACTICE
 3 credits
 Theory of sound and visual image recording. Planning and production practices in composition of audio and video messages.

COM 204 (F, S)
FILM AS ART
 3 credits **Core II**
 Analyses of the development of film as a medium. Consideration of various film genres and styles and of critical approaches to a film. Screening of outstanding American and foreign films.

COM 205 (F, S)
COMMUNICATION AND RHETORICAL THEORY
 3 credits
 This course explores communication theories and research methods. Students learn the theoretical underpinnings of Mass Communication, Public Relations, and Human Communication.

COM 254 (F, S)
PUBLIC SPEAKING
 3 credits **Core II**
 Students develop skills in effective research, organization, presentation, and analysis of various types of speeches.

AREAS OF CONCENTRATION

Human Communication Track

COM 311 (F, S)
FAMILY COMMUNICATION
 3 credits
 Course examines the theory and practice of families, and focuses on healthy and unhealthy patterns of communication. Aside from examination of personal family experiences, course explores skills for promoting satisfying communication.

COM 312 (F, S)
PERSUASION, PROPAGANDA, AND THE MEDIA
 3 credits
 Examines persuasion from the perspective of the humanistic and social science traditions. It explores both theory and practice with the goal of enhancing the student's abilities as consumer and practitioner.

COM 313 (F)
BUSINESS AND PROFESSIONAL COMMUNICATION
 3 credits
 Develops understanding of underlying communication processes in business and professional settings. Communication activities include: employment interviews, oral reports, group discussions, and proposal presentations.

COM 314 (F)
SEX ROLES AND COMMUNICATION
 3 credits
 Focuses on communication between sexes. Examines research on gender

and communication in interpersonal, public, and mass media contexts.

COM 315 (S)
RHETORICAL CRITICISM
 3 credits
 Examines the history, methods and practice of rhetorical criticism, surveying critical theories and orientations as well as a variety of speeches and persuasive artifacts. Students will practice and demonstrate their understanding through written essays.

COM 316 (S)
ADVANCED COMMUNICATION THEORY AND RESEARCH
 3 credits
 This course examines advanced communication theories, methods and research. Students learn how to interpret and conduct communication research.

COM 410 (F, S)
HUMAN COMMUNICATION SEMINARS
 3 credits
 Designed to expose students to theories of human communication in specific areas of research. Among topics offered are: organizational communication, family communication, persuasion theory, communication theories and methods, intercultural communication, philosophy of communication, and gender communication.

Mass Communication Track

COM 301 (F, S)
BROADCASTING IN AMERICA
 3 credits
 A study of the structure of broadcasting in America and of its interaction with society. Prerequisite: COM 201.

COM 302 (F, S)
BROADCAST NEWSWRITING
 3 credits
 Introduction to and application of newswriting for radio and television, including hard news features and documentary formats.

COM 303 (F, S)
SCRIPTWRITING
3 credits

Introduction to and application of scriptwriting techniques in formats appropriate for the media of radio, television, and film.

COM 304 (F, S)
RADIO PRODUCTION
3 credits

Introduces students to the fundamental theories and practices of radio production. Topics include: arranging the programming day; scripting news, dramatic and commercial presentations; training of personnel for actual programming. Prerequisite: COM 203.

COM 305 (F, S)
TELEVISION PRODUCTION
3 credits

Introduction to the planning, production, and editing methods of television. Includes pre-production scripting and participation in production of videotaped television shows. Prerequisite: COM 203.

COM 403 (F, S)
FILM SEMINARS
3 credits

In-depth study of film as art and as cultural document. Topics vary and include: American Film Comedy, Films of Alfred Hitchcock, The New York Films: Woody Allen and Michael Scorsese, Film Noir, The Vietnam War Films, and others.

COM 404 (F, S)
MASS COMMUNICATION SEMINARS
3 credits

Communication law, mass communication effects, and broadcast case studies are offered as separate mass communication seminar topics. Junior and Senior students may select one or more of these topics for their seminar course(s).

Public Relations Track

COM 307 (F, S)
PRINCIPLES OF PUBLIC RELATIONS
3 credits

An introduction to the theory and practice of Public Relations. Emphasis on Public Relations tasks and responsibilities, goals and objectives, decision-making, and evaluation.

COM 312 (F, S)
PERSUASION, PROPAGANDA, AND THE MEDIA
3 credits

Examines persuasion from the perspective of the humanistic and social science traditions. It explores both theory and practice with the goal of enhancing the student's abilities as consumer and practitioner.

COM 316 (S)
ADVANCED COMMUNICATION THEORY AND RESEARCH
3 credits

This course examines advanced communication theories, methods and research. Students learn how to interpret and conduct communication research.

COM 357 (F, S)
PUBLIC RELATIONS WRITING
3 credits

How to write for advertising and public relations campaigns. The communication process, campaign strategy, communication research, and creativity are explored. Students prepare a total communication campaign, requiring oral and written presentations.

COM 407 (F, S)
PUBLIC RELATIONS SEMINAR
3 credits

Advanced study of public relations theory and research. Topics include: Public Opinion and Public Relations Research, Public Relations Case Studies, Campaigns, and Management. Prerequisites: Junior standing and above, COM 306, 307, 312.

Writing Track

COM 206 (F, S)
FUNDAMENTALS OF JOURNALISM
3 credits

Reporting and interviewing techniques, newswriting, copy editing and headline writing, the editorial, the feature story, newspaper makeup and design, libel, and the responsibility of the press. Two hours lecture, one hour of field assignment weekly.

COM 302 (F, S)
BROADCAST NEWSWRITING
3 credits

Introduction to and application of newswriting for radio and television, including hard news features and documentary formats.

COM 303 (F, S)
SCRIPTWRITING
3 credits

Introduction to and application of scriptwriting techniques in formats appropriate for the media of radio, television, and film.

COM 357 (F, S)
PUBLIC RELATIONS WRITING
3 credits

How to write copy for print advertising and press releases, with an emphasis on creativity. The marketing process, campaign strategy, and advertising research. Preparation of a total campaign, requiring oral and written presentations in either advertising or public relations.

Capstone Course

COM 400 (F, S)
COMMUNICATION ETHICS
3 credits

Provides students with an overview of ethical standards relevant to social behavior and an in-depth study of contemporary ethical issues facing communicators. Concepts of truth, confidentiality, conflict of interest, social justice and other issues will be studied. Prerequisite: Junior standing and above.

Areas of Study

Other Communication Courses: May be taken as University Free Electives.

COM 450

COOPERATIVE EDUCATION

3 credits

Consult with Department Chair.

Prerequisite: Junior or Senior standing.

COM 461 (F, S)

INTERNSHIP

3 or 6 credits

Students may intern at advertising, public relations, publishing and broadcasting companies. Working approximately 15 hours a week under professional supervision, they learn how to apply their education to the everyday demands of these positions.

Required: Junior or Senior standing, 2.75 grade point average, and recommendation of the Chair.

COM 462 (F, S)

INTERNSHIP

6 credits

Intern will work approximately 25-30 hours per week.

COMPUTER SCIENCE

(See Mathematics and Computer Science.)

CRIMINAL JUSTICE

(See Sociology, Social Work, and Criminal Justice.)

ECONOMICS

FACULTY

Richard T. Geruson, Ph.D., *Chair Professor*: Kane

Associate Professors: Duffy, George,

Geruson, Grady, Robison

Assistant Professors: Cairo, Mshomba,

Paulin, Ratkus

FOUNDATION COURSE

ECN 150

CORE COURSES

Approved courses for Core II: ECN 150, 201, 203, 330, 331. You may choose *one* or *two* economics courses to fulfill Core II requirements.

REQUIREMENTS

Required for Major in Economics: 15 courses

- ECN 150, 201, 202, 203, 213, 214, 303, 304, 361 or 412, 411, 480
- MTH 115-116 (MTH 113, 120, 240 recommended in preparation for graduate school)
- Two courses in the social sciences (psychology, political science, or sociology)

COURSE DESCRIPTIONS

ECN 150 (F, S)

INTRODUCTORY

MACROECONOMICS

3 credits

Foundation/Core II

This course begins with an overview of the methods and content of economics. Focus then turns to the U.S. Macroeconomy. Major issues introduced include gross national product, inflation, unemployment, foreign trade.

ECN 201 (F, S)

INTRODUCTORY

MICROECONOMICS

3 credits

Core II

This course discusses pricing and output determination in competitive and less than competitive markets. Topics include demand, costs of production, market structures, resource allocation, and efficiency. Other topics covered are international trade and finance, and economic growth and development. Prerequisite: ECN 150.

ECN 202 (F)

MONETARY ECONOMICS

3 credits

A study of the monetary and financial system of the U.S. economy. Emphasis on the importance of the money supply, the demand for money, and interest rates, along with more recent developments in the study of monetary variables. Instruments of monetary policy discussed and evaluated in the context of contemporary economic theory. The position of the American financial system in the international financial network is also considered. Prerequisites: ECN 150, 201.

ECN 203 (S)

AMERICAN ECONOMIC HISTORY

3 credits

Core II

Describes and analyzes long-term economic growth and development since colonization. Stresses changes in demographic, technological, and institutional factors as they interact with the market system. Applies

basic economic concepts and theories of growth to significant historical questions.

ECN 213 (F)
ECONOMICS AND BUSINESS STATISTICS

3 credits

Basic statistical methods used in the analysis of business and economic decision problems. Emphasis on valid applicability of techniques, sound interpretation of statistical results, as well as successful execution of statistical methods. Topics include: descriptive statistics, both graphical and numerical; probability and probability distributions; statistical estimation and hypothesis testing; and simple regression and correlation. Students will be introduced to a microcomputer statistical software package.

ECN 214 (S)
INTRODUCTION TO ECONOMETRICS

3 credits

This course focuses on a statistical technique known as regression analysis. Students will learn how to put together single equation and simultaneous equation regression models that will enable them to explain or predict actual economic and business phenomena. Students will also learn how to access existing public databases and how to utilize statistical software to estimate regression models. Prerequisite: ECN 213 or QNT 213 or permission of the Department Chair.

ECN 270, 370, 470 (F, S)
SPECIAL TOPICS IN ECONOMICS

3 credits

Topics include: Labor Markets, Employment and Wages; Women in the Economy; European Economic Community. Prerequisite: permission of instructor.

ECN 301 (F, S)
LABOR ECONOMICS

3 credits

Analyzes the determination of wages, employment, and working conditions. Focus is on neoclassical, institutional, and Marxist theories

of the labor market and the implications of each for public policy. Prerequisite: ECN 150.

ECN 302 (F, S)
MANAGERIAL ECONOMICS

3 credits

This course covers the applied economic theory of the firm. The emphasis throughout is on the elements of economics most useful in business decision making. Topics include forms of competitive behavior, uses of marginal cost analysis, pricing techniques, profit and demand measurement, and forecasting. Prerequisites: ECN 150 and 201; ECN 213, QNT 213, MTH 115, 116; CSC 151.

ECN 303 (F)
INTERMEDIATE MICROECONOMIC THEORY

4 credits

This course examines the inter-relationships among consumers, firms, and industries as these microeconomic units interact to resolve pricing and output questions in various types of product and resource markets. Central topics include the theory of consumer behavior, production theory and related costs of production, profit maximizing principles for firms in various markets, product market structures, resource pricing, general equilibrium analysis, and welfare economics. Prerequisites: ECN 150, 201; MTH 115, 116 or equivalent.

ECN 304 (S)
INTERMEDIATE MACROECONOMIC THEORY

4 credits

This course studies the main descriptive, theoretical, and policy aspects of issues of national economic concern such as unemployment, inflation, and balance of payments equilibrium. The course notes the history of both macroeconomic fluctuations in the U.S. and efforts at utilizing macroeconomic stabilization policies. Prerequisites: ECN 150; MTH 115, 116 or equivalent.

ECN 305 (F, S)
ECONOMICS OF INTERNATIONAL BUSINESS

3 credits

This course examines trade theory and applies the theory to business firms. It introduces the cultural, environmental, and ethical issues facing international businesses and examines the impact of trade policies, foreign exchange, and the balance of payments on businesses' decision making. Prerequisites: ECN 150, 201; MTH 115, 116; junior standing.

ECN 330 (S)
THIRD WORLD POVERTY AND ECONOMIC DEVELOPMENT

3 credits

Core II

This course describes and documents the poverty besetting the majority of humankind, and analyzes its causes, utilizing economic concepts and theories in conjunction with social, political, cultural, religious, and philosophical factors. Prospects for the future and policies aiming to promote development are also examined. Prerequisite: ECN 150.

ECN 331 (F, S)
INTERNATIONAL ECONOMICS

3 credits

Core II

An introduction to the theory of international trade. Topics include specialization and the gains from trade, tariffs and protectionist policies, trade imbalances, foreign exchange markets, evolution of international monetary systems, and the role of international institutions. Prerequisites: ECN 150, 201.

ECN 341 (F)
APPLIED ECONOMETRIC RESEARCH

3 credits

This course focuses on the application, rather than theoretical development, of regression analysis. While some time will be spent introducing and reviewing statistical techniques, the majority of the course is devoted to specification, estimation, interpretation, and evaluation of regression models. Additional emphasis is placed on

Areas of Study

using regression models to forecast.
Prerequisites: ECN 150 and 201,
ECN 214 or QNT 215, or
permission of Department Chair.

ECN 351 (S)

ENVIRONMENTAL ECONOMICS 3 credits

Provides an introduction to the tradeoffs (costs versus benefits) associated with environmental issues. Evaluating tradeoffs requires an examination of the magnitude or current environmental problems and some consideration of how to measure the costs and benefits of regulatory changes. Approximately half the course will be devoted to examining the current regulations, how the regulatory process works, and the economic implications of the regulations. Prerequisite: ECN 150 or permission.

ECN 361 (F)

COMPARATIVE ECONOMIC SYSTEMS 3 credits

This course compares and contrasts various market, planned, and mixed economies with respect to (1) the state goals of each system, (2) the means for achieving those goals, and (3) the evaluative criteria used to judge the success of each system. Economies representative of these various systems will be discussed. Prerequisite: ECN 150.

ECN 404 (F)

PUBLIC FINANCE 3 credits

An analysis of the revenue and expenditure activity of government with particular emphasis on the rationale of Federal government activity. Also considered are the issues of distribution, efficiency, equity, and stability in the economy. Prerequisites: ECN 150, 201.

ECN 411 (F)

HISTORY OF ECONOMIC THOUGHT 3 credits

The development of economics as a coherent analytical discipline through a detailed historical study of its main schools and contributors, including: the

Physiocrats; the Classical Economists (especially Jevons, Walras, and Clark); Marshall; Keynes. Lesser figures treated as time allows. Attention throughout to the changing philosophical and cultural background of economic thought. Prerequisites: ECN 150, 201.

ECN 412 (S)

MODERN ECONOMIC THOUGHT 3 credits

Explores the intersection of economics with social and political philosophy through the writings of leading 20th century American and European economists and social theorists, including Veblen, Keynes, Schumpeter, Mises, Hayek, Friedman, Galbraith, Rawls, and others. Emphasis on the perennial questions that market capitalism and authoritarian centralism compel the thoughtful person to confront, such as private wants vs. public needs; the efficiency-equity tradeoff; economic progress vs. economic security; the impulse of self-interest vs. the need for social cohesion; the drive for expanded personal freedom vs. the perceived need for government regulation. Themes treated will vary from year to year. Extensive readings from original texts. Prerequisites: ECN 150, 201.

ECN 480 (F)

SEMINAR 3 credits

This course is intended to be a capstone course for economics majors, one that aids the student in integrating the material from diverse economic courses. Stressed are techniques for the preparation of written research reports. Students will ordinarily deliver to the seminar an oral presentation of their research results. Prerequisite: Senior standing in economics.

ECN 485 (F)

SEMINAR IN ECONOMICS AND INTERNATIONAL STUDIES 3 credits

This capstone course for Economics and International Studies Majors

aims to assist students to research, integrate, and communicate information about the global economy. Specifically, students will learn to conduct research on economic problems and policies of countries and regions of the world not native to them. Students will compose a 250-300 word abstract of their seminar papers in two languages, English and a second language. Further, students will be expected to demonstrate at least one of the following competencies: a) to write, in a non-native language, summaries of research in sources written in non-native language, b) to write the seminar paper in a non-native language, or c) to present research results orally in a non-native language. Prerequisite: senior standing in Economics and International Studies.

ECN 489 (F, S)

ECONOMICS INTERNSHIP 3 credits

Placement arranged by Department or individuals. Intern will work approximately 15-20 hours per week.

ECONOMICS AND INTERNATIONAL STUDIES

(Administered by the Chair,
Economics Department)

Required for Major in Economics
and International Studies: 17
courses

- ECN 150, 201, 213, 214, 303, 304, 330, 331, 485
- Three courses in non-native, modern Foreign Language (Based on students' backgrounds and interests, they select, in consultation with their advisor, courses that will aid them to attain the functional proficiencies required for the successful completion of ECN 485):

European Language 201-202 or higher; or JPN 101-102 or higher

- MTH 115-116 (MTH 120 may be taken instead, allowing the student another History course *within the major*)
- One or two courses from the following: HIS 308, 325, 344, 345, 346, 351, 353, 354, 447
- Two internationally focused courses in the Humanities or Social Sciences, as approved by advisor, such as:
ART 207, 208, 310
PHL 206, 350
POL 120, 221, 240, 241, 322, 344
REL 240, 340, 341, 342, 344
SOC 258, 263

EDUCATION

FACULTY

Lawrence Colhocker, F.S.C., Ed.D.,
Chair

Maryanne Bednar, Ph.D., *Director of
Elementary and Special Education*

Francis Ryan, Ed.D., *Director of
Secondary Education*

Gary Clabaugh, Ed.D., *Director of
Graduate Education*

Professor: Clabaugh

Associate Professors: Bangs, Bednar,
Feden, Lambert, Ryan, Schoen,
Vogel

Assistant Professors: Bartleheim,
Colhocker, Freeman, Sentner, J.
Sweeder

Lecturers: Heath, Klein, Norman,
M. Sweeder

CORE COURSES

Approved courses for Core II:
EDC 201, 203.

REQUIREMENTS

La Salle University offers teacher preparation programs in secondary, elementary, and special education (see below). These programs are approved by the Pennsylvania Department of Education and lead

to a B.A. degree and, upon successful completion, recommendation for Instructional I certification in the area(s) pursued by the certification candidate.

Students may declare a major in education in the Freshman year. Because of the nature of the requirements for certification, declaring the major as early as possible is highly recommended.

Application for admission to candidacy for certification is normally made at the end of the Freshman year. The policies and procedures for applying for admission to candidacy and for advancement through the various stages of candidacy are contained in the Department of Education Student Handbook. All education majors are responsible for knowing and adhering to these policies and procedures for candidacy.

Before being accepted into the Professional Semester (secondary education majors) or the Professional Year (elementary and special education majors) students must be recommended by the Education Department faculty. Recommendations are predicated upon successful completion of all course requirements with the indexes and grades specified in the Student Handbook and on the fitness of the individual for the professional position he or she has selected.

Upon successful completion of the Professional Semester or the Professional Year, a student may apply for Instructional I certification. State certification regulations require that an applicant for a teacher's certificate be known by the preparing institution as a person of good moral character, possessing personal qualities, professional knowledge, and pedagogical competencies which warrant issuance of a teacher's certificate. In addition, all applicants must meet certain physical and medical standards to obtain an Instructional I certificate to teach in the public schools of Pennsylvania.

Anyone applying for an Instructional I certificate is required by Pennsylvania State Board regulations to pass the appropriate sections of the National Teachers Exams. Information about the National Teachers Exams is available in the Department of Education office (Olney 254). Other states may also require prospective teachers to take the National Teacher Exams. In accordance with the provisions of Act 34 of 1985 of the Commonwealth of Pennsylvania, applicants for an Instructional I certificate in the Commonwealth must undergo background checks. For residents of the Commonwealth, a check must be performed by the Pennsylvania State Police. Non-resident applicants will require a check by the FBI. For more information about these requirements, see the appropriate program director. Further information about applying for certification is contained in the Department of Education Student Handbook and the Student Teaching Handbook. All education majors are responsible for knowing and adhering to the policies and procedures for applying for certification.

Students not majoring in education are invited to register for education courses that carry no prerequisites. Students planning to minor in education must see Brother Lawrence Colhocker, Chair (Olney Hall 254).

Requirements for Major in
Secondary Education:

- EDC 101, 203, 204, 304, 306, 401, 470
- EDC 218 (required of Comprehensive Social Studies and Earth and Space Science majors)
- Courses designated for associated discipline (See Education Department Student Handbook and area advisors for specific courses.)

La Salle University offers a program of studies that is approved by the Pennsylvania Department of

Areas of Study

Education and leads to recommendation for Instructional I certification in Comprehensive Social Studies, Communications (Non-Print media), English, Earth and Space Sciences, Biology, Chemistry, Physics, Mathematics, French, German, Italian, Latin and Spanish. (Foreign language students are certified to teach K-12.) For further information, see Dr. Francis Ryan, Director of Secondary Education (Olney Hall 259).

Requirements for Major in Elementary and Special Education:

- EDC 101, 201, 203, 204, 217, 218, 301, 302, 304, 306, 343, 344, 474, 475, 476, 477
- ECN 150, MUS 101, ART 101, HIS 101, 201 or 301

La Salle University offers a combined program of studies that is approved by the Pennsylvania Department of Education. Successful completion of the required course of studies leads to recommendation for Instructional I certification as an elementary educator, a teacher of the mentally and/or physically handicapped (K-12), or both. The mentally and/or physically handicapped certificate enables successful graduates to teach individuals with mental retardation, pervasive developmental disorders, serious emotional disturbance, neurological impairment, specific learning disability, and physical disability. The elementary certificate allows graduates to teach non-handicapped students in grades K-6. All elementary and special education majors are required to complete a full year of student teaching. All elementary and special education majors must meet with a department faculty member during each preregistration period throughout the entire four-year program. This insures that all students are following the prescribed sequence of courses leading to a degree and to certification. For further information, see Dr. Maryanne

Bednar, Director of Elementary and Special Education (Olney Hall 251).

Requirements for Religion-Education:

- EDC 101, 203, 204, 304, 306, 401, 470
- Courses designated by the Religion Department.

This program has been designed for those students who wish to teach religion in the secondary school. Because religion is not an accredited subject in any state, no Pennsylvania Instructional certificate can be issued.

Requirements for Master of Arts in Education:

See Dr. Gary Clabaugh, Director of Graduate Education (Administration Building 206).

COURSE DESCRIPTIONS

EDC 101 (F, S) THE ROLE OF THE DEVELOPMENTALLY-ORIENTED TEACHER

3 credits

A field-based introduction to the various roles teachers play in American education. Reflective teaching experiences. Also highlights current issues in education and the professional rights and responsibilities of teachers. Field experience required (two hours each week). Open to freshmen and sophomores only.

EDC 201 (F, S) HUMAN EXCEPTIONALITY

3 credits

Core II

A study of human exceptionality, which is actually a study of being human. Examines methods used to label people, reasons why we label, and effects that labeling may have on a person, all from a multi-disciplinary perspective. Each area of exceptionality is defined and studied in terms of characteristics, causes, prevention, and intervention strategies.

EDC 203 (F, S) EDUCATIONAL PSYCHOLOGY I: LEARNING AND DEVELOPMENT

3 credits

Core II

Study of the nature and scope of educational psychology as well as basic principles and terminology that constitute educational research. The student will study basic developmental theory with an emphasis on the cognitive, moral, and social aspects. After identifying the major types and levels of learning, the course will explore the topic from the behavioral, cognitive structuralist, and information processing points of view. Finally, the course will treat the major distinctions and definitions of motivation theory. Throughout, the course will seek to adapt developmental, learning, and motivation theories to instructional settings.

EDC 204 (F, S) EDUCATIONAL PSYCHOLOGY II: CURRICULAR AND INSTRUCTIONAL APPLICATIONS

3 credits

Assuming the student's knowledge of human development and learning theory, this course focuses on instructional applications of that theory. Topics: instructional design, research on effective instruction, modes of instruction, the transfer and retention of learning, individual differences, learners with special characteristics, classroom management, educational tests and measurements, and the evaluation of student performance. Field experience required (two hours each week). Prerequisite: EDC 203.

EDC 217 (F, S) MATHEMATICS FOR TEACHERS

3 credits

Reflects contemporary beliefs about how children learn math and how teachers should present the subject to handicapped and non-handicapped learners. Focuses upon the development of underlying concepts, principles, generalizations, and applications through explorations, investigations, critical thinking, and

communication. Prerequisites: EDC 101, 201, 203, 204.

EDC 218 (F, S)
GEOGRAPHY FOR TEACHERS
3 credits

Provides educators with the knowledge base necessary to institute, update, and enrich geography curricula in the schools. Surveys the major research traditions of geography, including the earth science tradition, the culture-environment tradition, and the area analysis tradition. Addresses geographical illiteracy. Promotes learning place name geography. Prerequisites: EDC 101, 201, 203, 204.

EDC 301 (F, S)
GENERAL METHODS AND CLASSROOM MANAGEMENT
3 credits

Emphasizes teaching learners within the framework of a developmentally-oriented, student-centered curriculum. Focuses on strategic instructional planning, teaching styles, presentation skills, questioning techniques, concept development, cooperative learning, and classroom management/discipline systems. This course has been designated as the writing emphasis course for elementary and special education majors. Field experience required (two hours each week). A major research paper will also be required. For elementary and special education majors only. Prerequisites: junior standing and acceptance into candidacy for certification, or permission of the Chair.

EDC 302 (F, S)
INSTRUCTIONAL MEDIA AND TECHNOLOGY
3 credits
Focuses on helping prospective teachers incorporate the modern technologies of instruction into their classroom practices. Emphasis on the impact of those technologies on human growth and development, and the ways that teachers can most effectively use them to bring about learning.

Includes media design and production, still photography, television, and computers. Students will be required to purchase approximately \$50.00 in materials. For elementary and special education majors only. Prerequisites: EDC 101, 201, 203, 204.

EDC 304 (F, S)
DEVELOPMENTAL READING
3 credits

Provides an understanding of the developmental nature of the reading process and its relationship to the other language arts. One section is directed to elementary and special education majors; another section is directed to secondary education majors. Prerequisites: junior standing and acceptance into candidacy for certification, or permission of the Chair.

EDC 306 (F, S)
FOUNDATIONS OF EDUCATION: A DEVELOPMENTAL PERSPECTIVE
3 credits

Promotes disciplined analysis of the meaning and effects of educational institutions. Provides resources for developing a critical understanding of educational thought and practice. Encourages the development of value positions regarding education and schooling based on critical study. Supplies resources for the development of policy making perspectives and skills. Open to non-majors.

EDC 330 (F, S)
THE EDUCATION OF URBAN POPULATIONS
3 credits

A multidisciplinary examination of the social, economic, political, and demographic aspects of urban populations as they affect formal education.

EDC 343 (F, S)
DEVELOPING AND ADJUSTING INSTRUCTION TO MEET THE NEEDS OF ELEMENTARY AND SPECIAL NEEDS LEARNERS
3 credits
Enables elementary and special education teachers to use a cognitively-oriented developmental perspective in the design of instruction and to adjust instruction to accommodate the wide spectrum of needs commonly found among learners, both handicapped and non-handicapped, in a variety of instructional settings. Field experience required (two hours each week). Students will be required to purchase approximately \$10.00 in materials. Prerequisites: junior standing and acceptance into candidacy for certification, or permission of the Chair.

EDC 344 (F, S)
ASSESSING THE LEARNING ABILITIES AND DISABILITIES OF ELEMENTARY AND SPECIAL NEEDS LEARNERS
3 credits

Focuses on providing elementary and special education teachers with a thorough knowledge of standardized test scores and what they mean. In addition, helps teachers to gather curriculum-based assessment data in the areas of oral and written language, mathematics, social and affective behaviors, and perceptual motor performance and to develop interventions that may be necessary based on their data. Field experience required (two hours each week). Prerequisites: junior standing and acceptance into candidacy for certification, or permission of the Chair.

EDC 401 (F)
THE ART AND SCIENCE OF TEACHING
6 credits

Methods of teaching within the framework of student-centered rather than a teacher-centered environment. Focuses on elements of the educational process characterized by teacher involvement in decision-making: school-based curriculum

Areas of Study

development, instructional design, instructional methods, instructional materials and resources, educational technology, methods of evaluation, classroom management, adjusting curriculum and instruction to the needs of special populations. Emphasis placed upon the act of teaching as both art and science. Field experience required (two hours each week). Research paper also required. For secondary education majors only. This course has been designated as the writing emphasis course for secondary education majors. Students will be required to purchase approximately \$50.00 in materials. Prerequisites: junior standing, acceptance into candidacy or permission of the Chair, and EDC 101, 203, 204, 304, and 306.

EDC 470 (S) THE PRACTICE AND PROFESSION OF TEACHING 12 credits

Provides the secondary education major with full-time student teaching experience in a selected middle, junior or senior high school. Under the direction of a certified cooperating teacher and a university supervisor, the student teaches for fourteen weeks on a five-day-a-week, full-day schedule. The student teaching experience is supplemented by regularly scheduled tutorials held both on campus and at the placement site as well as a series of seminars on selected professional issues. The student must comply with all candidacy procedures. Prerequisites: senior status, acceptance into candidacy, and EDC 101, 203, 204, 304, 306, and 401.

EDC 474 (F, S) THE PROFESSIONAL YEAR—STUDENT TEACHING IN ELEMENTARY EDUCATION 12 credits

For one semester of the Professional Year, the elementary and special education major is engaged in student teaching in elementary education classrooms

under the guidance of experienced teachers and a University supervisor. This experience takes place in either a public or private school in Philadelphia or the surrounding suburbs. Prerequisites: acceptance into candidacy, completion of all required courses in accordance with the criteria outlined in the Department of Education Student Handbook; approval of the department faculty.

EDC 475 (F, S) THE PROFESSIONAL YEAR—TEACHING AND RESEARCH METHODS I 3 credits

Course content focuses on current trends in educational research as they are applied to the art of teaching. Classroom management, mainstreaming, the integration of specific subject fields in the elementary curriculum, and decisions concerning instructional strategies are examined from the perspective of the teacher/researcher. Taken concurrently with EDC 474. Prerequisite: acceptance into EDC 474.

EDC 476 (F, S)
THE PROFESSIONAL
YEAR—STUDENT TEACHING IN
SPECIAL EDUCATION
12 credits
Elementary and special education majors engage in student teaching in special education classrooms servicing mildly, moderately, or severely mentally and/or physically handicapped children. Student teachers are supervised by University faculty and experienced teachers in private or public schools located in Philadelphia or surrounding suburbs. Prerequisites: acceptance into candidacy, completion of all required courses in accordance with the criteria outlined in the Department of Education Student Handbook; approval of the faculty.

EDC 477 (F, S) THE PROFESSIONAL YEAR—TEACHING AND RESEARCH METHODS II 3 credits

Course modules focus on data-based instruction, behavior management and instructional strategies for moderately and severely handicapped children. Sessions addressing legal issues, inclusion methods, community resources, and career planning are inserted to meet state standards, as well as programmatic and personal needs. Taken concurrently with EDC 476. Prerequisite: acceptance into EDC 476.

ENGLISH

FACULTY

James A. Butler, Ph.D., *Chair*
Gabriel Fagan, F.S.C., Ph.D., *Acting Chair, 1994-95*
Professors: Burke, Butler, Fallon, Harty, Keenan, Millard, Seydow
Associate Professors: Fagan, Haberstroh, Hannum, Kleis, Kling, Merians, Mollenhauer, Smith, Soven
Assistant Professors: Allen, Cronin, Culjak, Lehr, Molyneaux, Newcomb, Rao, White
Lecturers: Craig, Grande, Tiedeken, Trachtenberg
Director, Sheekey Writing Center: Robertson
Writer-in-Residence: Cronin

FOUNDATION COURSES

Writing
ENG 107, 108
Literature
ENG 150

*Areas of Study***CORE COURSES**

Approved sequences for Core I:

First course: ENG 160 or 166.

Second course: ENG 201, 202, or 203. Third course: If you took 201, select one from 313, 320, 321, 335, 340, 341, 371. If you took 202, select one from 312, 324, 340, 355, 371. If you took 203, select one from 311, 315, 335, 340, 342, 371.

Approved courses for Core II:
ENG 160, 166, 201, 202, 203.

REQUIREMENTS

Required for Major in English: 15 courses; Dual Majors: 10 courses.

English majors may choose one of several "majors within the major": (1) Liberal Arts; (2) English-Education; (3) Writing; (4) Dual Majors, e.g., English-Accounting, English-Biology, English-Psychology. English majors may intern at advertising, public relations, publishing, and newspaper positions. See course description under ENG 461 for requirements.

The usual requirements for each program are as follows: (Exceptions require the approval of the Chair or Assistant Chair.)

- Liberal Arts: ENG 150; 201; 202; either 311 or 312 or 313 or 355; 320; 321; either 341 or 342 or 343; three period courses (choices include 422, 423, 426 through 432); 424; either 301 or 304 or 411 or 412; three English electives (not to include 107, 108, or more than one 160-level course).
- English-Education: LIT 150 or ENG 371; ENG 201; 202; 203; 300; 304; 315; 320; 321; either 324 or 424; two American literature courses (choices include 341, 342, 343); either 352 or COM 254; one advanced writing course (choices include 207, 303, 305, 306, 307, 318, 408, COM 206); either ENG 422 or 423 or 426 through 432; EDC 101, 203, 204, 304, 306, 401, 470.

- Writing: ENG 150; either 201 or 202 or 203; 318; 320; 321; 311 or 312 or 313 or 355; 424; either 302 or 304; either 341 or 342 or 343; four writing courses (choices include ENG 207, 303, 305, 306, 307, 360, 408, 409, 410, 461; COM 206, 302 or 303, 306); two English electives (not to include 107, 108, or more than one 160-level course).
- Dual Major: Individual program to be worked out in consultation with Chair or Assistant Chair.

COURSE DESCRIPTIONS**ENG 107 (F, S)****COLLEGE WRITING I**

3 credits

Foundation

Instruction in the writing process, in invention, and in necessary grammatical and organizational skills. Emphasis on writing from personal experience.

ENG 108 (F, S)**COLLEGE WRITING II**

3 credits

Foundation

Instruction in planning and executing writing assignments common to all disciplines. Emphasis on essays about readings and on the library paper. Prerequisite: ENG 107 or waiver of it.

ENG 150 (F, S)**THE LITERARY EXPERIENCE**

3 credits

Foundation

Reading, analysis, and discussion of the three prominent forms of literary expression—drama, poetry, and prose fiction—with attention to the cultural context of works written from the ancient world to the present. Short critical papers, some requiring use of secondary sources.

ENG 160 (F, S)**LITERATURE AND THE SEXES**

3 credits

Core I, II

Examines literature as a reflection of the different ways women and men are shaped by their society and of the ways they have related to each other in the private and public spheres. Short critical papers.

ENG 166 (F, S)**AMERICAN DREAMS AND AMERICAN NIGHTMARES**

3 credits

Core I, II

A study of the literary expression of the pioneer "dreams" of progress and freedom, and the "nightmares" they became in the face of war, poverty, discrimination, and industrial and technological revolutions. Readings include fiction, poetry, and drama. Short critical papers.

ENG 201 (F, S)**THE EXPERIENCE OF POETRY**

3 credits

Core I, II

A study of the uses of language in English poetry—meter, metaphor, symbol, and other linguistic features—and of the major conventional forms of English poetry.

ENG 202 (F, S)**THE EXPERIENCE OF DRAMA**

3 credits

Core I, II

A study of the development of the dramatic arts of comedy and tragedy from the ritual drama of Greece to the realism and naturalism of the 20th Century.

ENG 203 (F, S)**THE EXPERIENCE OF PROSE FICTION**

3 credits

Core I, II

Reading, analysis, and discussion of prose fiction.

ENG 207 (F, S)**CREATIVE WRITING I**

3 credits

Workshop in the writing of fiction and verse.

ENG 243 (F)**RELIGIOUS ATTITUDES IN MODERN LITERATURE**

3 credits

Identical with REL 243.

ENG 300 (S)**UNDERSTANDING THE WRITING PROCESS**

3 credits

Students examine their own writing process in the light of discussion of readings on topics such as: how writing connects with thinking; how proficient writers discover ideas, plan

Areas of Study

messages, and revise them; how the writing process changes in the world of work; how to supervise or instruct others in writing.

ENG 301 (S) HISTORY OF THE ENGLISH LANGUAGE

3 credits
Development of modern English from Old and Middle English; dialects and dialect geography.

ENG 302 (S) LANGUAGE AND PREJUDICE

3 credits
A study of how language affects the way we view ourselves and others in our culture. Case studies of language in relation to sexism, racism, and politics, supplemented by introductory concepts of language systems and stylistic analysis.

ENG 303 (F, S) WRITING FOR BUSINESS

3 credits
Provides instruction in planning and executing effective business writing. Students learn to write the documents required of them as professionals: letters, resumes, memos, proposals, abstracts, and reports. Prerequisites: ENG 108, junior or senior status.

ENG 304 (F)
THE GRAMMARS OF ENGLISH
3 credits
History of the English language and introduction to modern linguistic systems (traditional, structural, transformational) as applicable to selected secondary school grammar texts.

ENG 305-306 (F, S)
CREATIVE WRITING II, III
3 credits
Workshops in the writing of fiction and verse. Prerequisites: ENG 207 and permission of the instructor.

ENG 307
PLAYWRITING
3 credits
Study of the art of playwriting from the traditional and contemporary point of view. Guided writing of a one-act play.

ENG 311 (S) CONTEMPORARY BRITISH AND AMERICAN NOVEL

3 credits **Core I**
Selected major novelists of the 20th Century in England and America. Structure and trends.

ENG 312 (F) READINGS IN MODERN DRAMA

3 credits **Core I**
Selected plays of the modern theatre from Ibsen to Ionesco and other contemporary dramatists.

ENG 313 (F) CONTEMPORARY POETRY

3 credits **Core I**
An examination of representative 20th century poetic practice in English.

ENG 315 (F) YOUNG ADULT LITERATURE

3 credits **Core I**
Aimed at preparing prospective and actual teachers, librarians, and parents to understand and to direct the reading of young adults. Attention will be paid to the reading and discussion of contemporary young adult fiction representing a variety of themes and genres. Other topics include adolescent psychology, the history and development of young adult literature, current trends in young adult literature, and the young adult in film and other mass media.

ENG 318 (F, S)
ADVANCED COMPOSITION
3 credits
A course in writing and rewriting skills designed to show students how to write more effectively for different purposes and to different audiences: essays, articles, and reviews. Students should already demonstrate basic writing proficiency. Attention will be paid to a writer's methods and resources.

ENG 320-321 (F, S)
THE LITERATURE OF ENGLAND
3-6 credits **Core I**
Survey course in English literature showing development in types and forms. Fall: *Beowulf* to Blake. Spring: since 1800.

ENG 324 (F, S) SHAKESPEARE'S ART AND TIMES

3 credits **Core I**
Readings in Shakespeare's plays, emphasizing his success as a writer for the stage. Some consideration of the cultural background. A course designed with the non-English major in mind.

ENG 335 (F, S) WOMEN WRITERS

3 credits **Core I**
This course examines women's literary tradition by surveying works of women writers from several historical periods.

ENG 340 (F, S) RECENT AMERICAN WRITING

3 credits **Core I**
Students will be introduced to literary developments in the post-modern era, serious American authors as well as those emerging as promising figures. Novel, short story, poem, play, essay, non-fictional narrative.

ENG 341 (F)
AMERICAN LITERATURE (to 1860)
3 credits **Core I**
Literary historical movements of the period; major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman.

ENG 342 (S)
**AMERICAN LITERATURE
(1860-1900)**
3 credits **Core I**
Rise of realism; naturalism. Figures include Whitman, Twain, Dickinson, Howells, James, Chopin, Crane, and Dreiser.

ENG 343 (F, S)
**AMERICAN LITERATURE: 20th
CENTURY**
3 credits
Figures include: Hemingway, O'Neill, Fitzgerald, Faulkner, Frost, Eliot, Steinbeck, Porter, Welty, O'Connor, Ellison, Malamud, and Bellow.

ENG 350-351 (S)
DRAMA WORKSHOP
3 credits
Theory and practice in the arts of acting and directing for the theatre;

brief historical perspectives and graduated individual and/or group work on speeches and scenes; specific assignments and projects designed to meet the needs of the beginning or advanced student. May be repeated for credit.

ENG 352 (F)

ORAL INTERPRETATION OF PROSE AND POETRY

3 credits

Theory and practice in the training of the speaking voice for the demands of reading aloud; graduated work in the preparation, interpretation, and public performance of literary and dramatic works.

ENG 354

ORAL COMMUNICATION

(This course is now offered as Communication 254.)

ENG 355 (S)

THEATRE NOW

3 credits

Study of contemporary developments in American, British, and world drama, including works performed on and off Broadway and in London's West End and Fringe. Special attention to third world, minority, and women dramatists.

Core I

ENG 360 (F)

WRITING INSTRUCTION: THEORY AND PRACTICE

3 credits

The study of peer tutoring strategies and the rhetoric of academic prose.

ENG 371 (F, S)

OTHER VOICES, OTHER CULTURES

3 credits

Readings in selected works from Africa, Asia, Europe, and the Pacific Rim, emphasizing literature as a reflection of its cultural background. Designed with the non-major in mind.

Core I

ENG 408 (F)

PROFESSIONAL WRITING

3 credits

A course in professional writing aimed primarily at audiences

outside the organization. Directed practice in writing promotional literature: public relations materials, sales literature, pamphlets, brochures, and annual reports. Students should already demonstrate basic writing proficiency.

ENG 409 (S)

TECHNICAL AND SCIENTIFIC WRITING

3 credits

Directed practice in writing popular technical and scientific articles, technical reports and proposals, abstracts, and in using technical reference materials. Students should already demonstrate basic writing proficiency.

ENG 410 (S)

EDITING AND PUBLISHING

3 credits

Workshop approach to provide students with experience in judging manuscripts, editing copy, proofreading, typographical design, and production. Introduction to desktop publishing. Some field trips to printing and graphic arts centers. Guest lectures by practicing professionals.

ENG 411 (F)

LITERARY THEORY AND CRITICISM

3 credits

An introduction to the theory of literary structure and literary value; exercises in the description and evaluation of literary works; reports on assigned readings.

ENG 412 (S)

HISTORY OF LITERARY CRITICISM

3 credits

Readings and discussion of major critical texts in historical setting. Short critical papers.

ENG 422 (F 1994, S 1996)

CHAUCEER AND HIS WORLD

3 credits

Readings in *The Canterbury Tales*: short selections from medieval drama, romance, and allegory.

⌚

ENG 423 (F 1994, S 1996)

RENAISSANCE LITERATURE

3 credits

The intellectual, political, religious, and scientific ferment that accompanied the birth of Humanism and the death of Medieval order as expressed in the works of More, Machiavelli, Shakespeare, Donne, Bacon, and Milton.

ENG 424 (F, S)

SHAKESPEARE

3 credits

Intensive study of selected poems and plays, including tragedies, comedies, and chronicles, exploring the dramatic, literary, and historical dimensions of his art.

ENG 426 (F 1995)

MILTON IN AN AGE OF REVOLUTION

3 credits

The works of the great English poet as they reflect the conflicting values of the Renaissance and Reformation, presented against a backdrop of Civil War and the short-lived English Republic.

⌚

ENG 427 (S 1995, F 1996)

ENGLISH LITERATURE OF THE RESTORATION AND 18th CENTURY

3 credits

The historical approach will include the chief figures: Dryden, Pope, Swift, Addison and Steele, Johnson, and their more outstanding contemporaries.

⌚

ENG 428 (F 1995, S 1997)

THE ENGLISH NOVEL TO 1900

3 credits

The roots of modern fiction. Historical development of the novel from Defoe to Hardy. Analysis of structures and themes.

⌚

ENG 429 (S 1995, F 1996)


ENGLISH LITERATURE OF THE ROMANTIC PERIOD

3 credits


An historical survey of the lyric and narrative poets Coleridge, Wordsworth, Byron, Shelley, Keats; their practice and theory. Pertinent references to their contemporaries.

⌚

Areas of Study

ENG 430 (F 1994, S 1996) 
ENGLISH LITERATURE OF THE
VICTORIAN PERIOD
3 credits

The chief literary figures of the period—Tennyson, Arnold, Browning, Hopkins, Carlyle, Newman, Ruskin—and their contemporaries placed against their milieu. Lyric and essay stressed.

ENG 432 (F 1995, S 1997) 
MODERN BRITISH LITERATURE
3 credits

Beginning with Shaw and Yeats and covering the major figures up to the present. Drama, fiction, poetry with some attention to the cultural, social, and artistic influences.

ENG 435 (S 1995, F 1996)
WOMEN, LITERATURE, AND
CULTURE
3 credits

A study of feminist literary theory and an application of feminist literary criticism to a major writer, coterie, movement, or era.

ENG 461 (F, S)
INTERNSHIP
3 credits

Students may intern at advertising, public relations, publishing and broadcasting companies. Working approximately 12 hours a week under professional supervision, they learn how to apply their education to the everyday demands of these positions. Required: Junior or senior standing, 2.75 grade point average, and recommendation of the internship coordinator. Professor John Keenan.

ENG 462 (F, S)
INTERNSHIP
6 credits

Intern will work approximately 25-30 hours each week.

ENVIRONMENTAL STUDIES MINOR

Directed by: H. A. Bart, Ph.D.,
Geology Department

REQUIREMENTS

For Non-Science Majors:

A total of 6 courses are required, two of which must be from the 300 or 400 level.

- Required: BIO 154, CHM 150, GEO 155
- Optional Courses: At least two from ECN 351, POL 341, SOC 258, or RMI 370*, and no more than one additional course from PHL 206, POL 370*, PSY 225, or SOC 257.

For Biology Majors:

A total of 6 courses are required, two from the 200 level, and two from the 300 or 400 level.

- Required: GEO 155
- Optional Courses: At least three from ECN 351, GEO 270*, POL 341, RMI 370*, or SOC 258, and one or two courses from PHL 206, POL 370*, PSY 225, or SOC 257.

For Chemistry and Physics Majors:

A total of 6 courses are required, two from the 200 level, and two from the 300 or 400 level.

- Required: GEO 155
- Optional Courses: At least three from ECN 351, GEO 270*, POL 341, RMI 370*, or SOC 258, and one or two courses from BIO 154, PHL 206, POL 370*, PSY 225, or SOC 257.

For Geology Majors:

A total of 6 courses are required, two from the 200 level, and two from the 300 or 400 level.

- Required: BIO 403
- Optional Courses: At least three from ECN 351, GEO 270*, POL 341, RMI 370*, or SOC 258, and one or two courses from PHL 206, POL 370*, PSY 225, or SOC 257.

* *Special Topics courses*

FINE ARTS

FACULTY

Beverly T. Marchant, Ph.D., *Chair*
Professor: Diehl

Associate Professor: White

Assistant Professors: Lang, Marchant

ART

CORE COURSES

Approved sequence for Core I:

- Art 101
- Any 200 level course in the Art History section.
- Any 300 level course in the Art History section.

Studio courses are not available in the Core I sequence.

Approved courses for Core II:

- Art 101
- Any 200 or 300 level course in the Art History section.

Studio courses are not available in Core II.

REQUIREMENTS

Required for Major in Art History:
12 courses

- ART 101, 201-202, 311, 312, 313, 315, 319, 470
- Any two studio courses.
(Additional studio courses available at Chestnut Hill College.)
- One art history elective

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in art history. It is recommended that art history majors take at least two years of either German or French, especially if they intend to pursue graduate study. The art history major is to consider ART 201-202 as prerequisite for other art history courses.

Areas of Study

COURSE DESCRIPTIONS

ART 101 (F, S)

INTRODUCTION TO THE VISUAL ARTS

3 credits

Core I, II

An introduction to painting, sculpture, and architecture, with emphasis on major materials and techniques, styles and traditions.

ART 201-202 (F, S)

HISTORY OF ART I & II

3-6 credits

Core I, II

A chronological survey of architecture, painting, sculpture, and minor arts from major cultures, especially in the West. Emphasis is on identification and comprehension of styles, monuments, and traditions. Art 201 covers pre-historic art to ca. 1400; Art 202 covers the Renaissance to the 20th century.

ART 206

PAINTING FROM DAVID TO VAN GOGH

3 credits

Core I, II

Painting's evolution, content, and style, from ca. 1780 to the turn of the 20th century. Emphasis is on major schools and artists, including Romanticism, Realism, Impressionism, and Post-Impressionism.

ART 207

ASIAN ART (SUB-CONTINENT)

3 credits

Core I, II

Explores the evolution of the visual arts in India, Sri Lanka and Southeast Asia from early history to modern times. Navigating the course of art and culture along the historic Spice Route as Indian merchants, monks, and artisans followed the lure of precious metals and spices to exotic Southeast Asia.

ART 208

THE ARTISTIC GLORY OF CHINA AND JAPAN

3 credits

Core I, II

A study of the visual splendor of Chinese art and culture from the Early Bronze Age to the Cultural Revolution of the 20th century. An examination of the golden ages of visual arts and dynamic creativity

that brought Japan to high international status in the 20th century.

ART 209

AMERICAN ART

3 credits

Core I, II

Painting, sculpture, architecture, and minor arts in the United States from colonial times to the present, with particular emphasis on art and artists from the Philadelphia area.

ART 277

HISTORY OF GRAPHIC ART

3 credits

Core I, II

A chronology of graphic art from its inception in the 15th century to the present. Emphasis will be on the development of printmaking techniques and the social functions that make graphics unique among the visual arts.

ART 309

ROME—THE POLITICS OF ART

3 credits

Core I, II

Republican and Imperial Roman use of painting, sculpture, and architecture as instruments of power which carried multiple meanings. The dissemination of this approach and associated styles in other periods demonstrates the effectiveness and longevity of such an approach.

ART 310

PARIS—ART AND RELIGION

3 credits

Core I, II

French art from the fall of Rome to the early 20th century, emphasizing the building and decoration of cathedrals and palaces as well as the painting of panels and illumination of manuscripts.

ART 311

ANCIENT ART

3 credits

Core I, II

Study of selected early civilizations to the 4th century A.D. and the Early Christian era, emphasizing Greek, Roman, and other Mediterranean cultures.

ART 312

MEDIEVAL ART

3 credits

Core I, II

The development of the visual arts from the late Roman period to the

late Gothic of the 15th century. Special emphasis is on the establishment of Christian iconography and the evolution of church types.

ART 313

THE RENAISSANCE IN ITALY

3 credits

Core I, II

A study of Renaissance civilization concentrating on the architecture, painting, and sculpture of Italy from 1200 to 1570. Emphasis will be on such masters as Donatello, Michelangelo, Raphael, Leonardo da Vinci, and Titian.

ART 315 (F)

BAROQUE AND ROCOCO ART

3 credits

Core I, II

Styles, trends, and major forces in the visual arts of Western Europe during the 17th and 18th centuries, with special focus on the works of Bernini, Rubens, and Rembrandt.

ART 319

TWENTIETH CENTURY ART

3 credits

Core I, II

The development of modern painting, sculpture, and architecture from Post-Impressionism through such movements as Cubism, Surrealism, and Abstract Expressionism. Special emphasis is on major figures including Matisse and Picasso.

ART 470

RESEARCH TOPICS IN ART HISTORY

3 credits

Analysis and application of methods used in art criticism and research, with emphasis on writing. Subjects of study will vary. Required for art history major but open to qualified advanced general students, with permission of instructor.



Areas of Study

STUDIO COURSES:

ART 250-251 (F, S)

OIL PAINTING

3-6 credits

Introduction to basic techniques of painting, drawing, and perspective. Preparation of canvas and media. Exercises in indoor and outdoor painting.

ART 252-253 (F, S)

PRINT MAKING

3-6 credits

Introduction to basic print processes. Relief, intaglio, collograph printing, followed by mixed-media projects. Experimentation encouraged.

MUSIC

CORE COURSES

Approved sequence for Core I (Music History):

- Music 101
- Any 200 level course in the Music History section.
- Any 300 level course in the Music History section.

Approved sequence for Core I (Theory and Composition):

- Music 105
- Any 200 level course in the Music Theory and Composition section.
- Any 300 level course in the Music Theory and Composition section.

Approved courses for Core II:

- Music 101
- Any 200 or 300 level course in the Music History section.

REQUIREMENTS

Required for Major in Music: 12 courses

- In Music History: Six courses from the Music I History section.

- In Theory and Composition: MUS 105, 106, 214-215, 225, 301.

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in music. Those anticipating graduate work in musicology are also advised to elect courses in German, French, Italian, Latin and Greek as preparation for advanced studies.

The music major is expected to demonstrate a basic keyboard facility. It is desirable that such facility be achieved before entering the program or acquired through private study in the early stages of the program. Further, the music major is to adhere to the following establishment of prerequisites: MUS 105 and 106 as prerequisite for other courses in theory and composition. Students who feel qualified to take a placement examination in MUS 105 and 106 may arrange to do so. Any required theory courses not given at La Salle are taken at Chestnut Hill College.

COURSE DESCRIPTIONS

Music History

For the general student, courses in music history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.

MUS 101 (F, S)

THE ART OF LISTENING

3 credits

Core I, II

An exploration of the ways and means of musical composition as a denominator for experiencing music from different time periods and cultures. Popular and classical music, American and European, old and new.

MUS 110

JAZZ

3 credits

Core I, II

The evolution of jazz as a style and form, including Dixieland, Ragtime,

Swing, Boogie, Bop, Cool, Funky and recent jazz-rock innovations.

MUS 115

ANATOMY OF THE OPERA

3 credits

Core I, II

Concentrated study of selected works representing the stylistic and historical development of the opera. *Orpheus, Marriage of Figaro, Carmen, Otello, Porgy and Bess.*

MUS 203

AMERICA'S MUSIC

3 credits

Core I, II

From Plymouth Rock to Woodstock—the cultivated and vernacular traditions in American music. New England psalmody, the Yankee tunesmiths, the camp meetings, minstrelsy, the rise of musical culture in the 19th century, the popular and classical music of the 20th century.

MUS 204

MASTER COMPOSERS: THE CLASSICISTS AND THE ROMANTICISTS

3 credits

Core I, II

The Classical style of Haydn, Mozart, and Beethoven. The Romantic Movement in Germany, France, and Italy. Major works, principal forms, evolving concepts.

MUS 211 (F)

EIGHTEENTH CENTURY CLASSICAL MUSIC

3 credits

Core I, II

The development of the classical style in Western European music from the age of the rococo to the time of Beethoven, with special emphasis upon the contributions of Haydn and Mozart.

MUS 212 (S)

NINETEENTH CENTURY ROMANTIC MUSIC

3 credits

Core I, II

A study of 19th-century developments in music. The symphonic poem, art-song, and music-drama. Expansion of instrumental technique; development of orchestral and chamber music forms; growth of nationalism.

MUS 213 (S)
TWENTIETH CENTURY MUSICAL REVOLUTIONS

3 credits Core I, II
The emergence of new developments in musical composition in the 20th century. Examination of techniques and styles from impressionism to electronic music.

MUS 300
TOPICS IN THE HISTORY OF MUSIC

3 credits Core I, II
Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

MUS 304
MASTER COMPOSERS: THE IMPRESSIONISTS AND THE MODERNS

3 credits Core I, II
The cross-pollination of poetry, art, and music leading to the impressionistic style of Claude Debussy. The spirit of artistic revolutions in the 20th century that produced the major changes in music in our own time.

MUS 305
THE SYMPHONY

3 credits Core I, II
An examination of the development of one of the musical world's most widely cultivated forms. The growth of the orchestra and orchestral instruments from simple ensembles of the eighteenth century to the mammoth post-romantic orchestra of the late nineteenth and early twentieth centuries. The emergence of the conductor. Masterworks of principal European and American composers.

MUS 310
MINIATURES IN JAZZ AND THE CLASSICS

3 credits Core I, II
An exploration of the chamber music medium in both popular and classical styles. Improvisational and non-improvisational approaches. The different social backgrounds of the two principal areas. The

likenesses and the differences of the musical end-results.

MUS 311 (F)
EARLY MUSIC

3 credits Core I, II
The evolution of sacred and secular music from the early Christian church to the time of Bach. The great periods of vocal music, the creation of new forms, and the development of dramatic and instrumental music.

Theory and Composition

For the general student, courses in theory and composition do not carry prerequisites; however, the general student who has not had MUS 105 and 106 is advised to use discretion in the selection of other theory and composition courses.

MUS 105 (F)
FUNDAMENTALS OF MUSIC THEORY

3 credits Core I
Introduction to the basic theoretical concepts of music: staff notation, calligraphy, scales, key signatures, intervals, chords, rhythm. Elementary ear training stressing the ability to take melodic and rhythmic dictation and to sing a simple melody at sight. No prior knowledge of music necessary.

MUS 106 (S)
THEORY IN PRACTICE

3 credits
Creative implementation of the theoretical foundations and principles of musical structures. Prerequisite: ability to read music or permission of instructor.

MUS 214-215 (F, S)
HARMONY

3-6 credits Core I
Fall: Basic elements of harmony as found in tonal music: chord succession, voice leading, non-harmonic tones, figured bass. Spring: Stylistic analysis of representative works from the baroque through the romantic period, concentrating on the evolution of harmonic language. Creative work in imitation of each

style studied. Open to the general student with permission of instructor.

MUS 218
ELECTRONIC MUSIC I

3 credits Core I
An introduction to the development and application of electronic music from Pierre Schaeffer to Philip Glass. Analog and FM Digital synthesis will be studied.

MUS 225 (F)
ORCHESTRATION

3 credits Core I
A study of the properties, capacities, and functions of orchestral instruments and voices. Analysis of scores and practices of orchestration.

MUS 301 (S)
COUNTERPOINT

3 credits Core I
Principles and techniques of linear writing. Introduction to canon and fugue. Exercises in construction on progressive levels. Open to the general student with permission of instructor.

MUS 316
TOPICS IN THE THEORY OF MUSIC

3 credits Core I
Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

MUS 320
ELECTRONIC MUSIC II

3 credits
Multi-media processing. Designing, drawing, and digitizing images with Macintosh tools and techniques. Sound and image processing to create multi-media projects on video tape. Prerequisite: MUS 218 or permission of instructor.

Areas of Study

Applied Music

MUS 151

APPLIED MUSIC

1 credit

Available to the general student as well as the music major in accordance with the following conditions: Students applying for academic credit for study of an instrument (limited to keyboard, classical guitar, and all instruments of the standard symphony orchestra) or voice must demonstrate the ability to undertake such study at least at an intermediate level.

Arrangements to work with a teacher of the applicant's choice and the financial obligations for such study are the responsibility of the student. At the close of the semester in which the student is applying for credit, the teacher will submit a written report on the student's progress.

The student will demonstrate his or her accomplishment in a proficiency performance arranged by the department and will be graded on a credit/no credit basis. Upon successful demonstration of achievement, the student will receive one academic credit, which will count as elective credit and will not be counted toward the major. A permissible total of six credits will be allowed. Students wishing to apply for applied music credit may register for MUS 151 upon approval of the department.

Collegium Musicum: A vocal and instrumental performing ensemble devoted to the study of musical repertory of all periods which is designed for small groups.

FOREIGN LANGUAGES AND LITERATURES

FACULTY

Bernhardt G. Blumenthal, Ph.D.,
Chair

Professors: Blumenthal, Brownstein, Perfecky, Rudnytzky

Associate Professors: Angerosa, Davis, Mall, McCann, Morocco

Assistant Professor: Trovato

Lecturers: Buckley, DiMarco, Fazzini-DiCimillo, Hazzard, McBride, Peaden, Sackheim

FOUNDATION COURSE

LIT 150

CORE COURSES

Approved Language sequences for Core I:

Language 101, 102, 201. Language 201, 202, 301. Language 301, 302, 300-400 level. The sequence you will follow depends upon your initial placement according to your previous language training.

Approved Language options for Core II:

Language 201, 202 or Language 301, 302.

Approved Literature sequences in Foreign Literatures for Core I:

French 311, 312, and one from FRN 411, 425, 431, 447, 453, 455, 457. German 311, 312, and one from GER 405, 421, 431, 441, 451, 480, 481. Italian 311, 312, and one from ITL 331, 332, 451, 480, 481. Spanish 311, 312, and one from SPN 313, 405, 411, 415, 419, 442, 443, 448, 457, 480. To follow one of these sequences, you must have a good reading knowledge of the language.

Approved Literature options in Foreign Literatures for Core II: FRN 311, 312; GER 311, 312; ITL 311, 312; or SPN 311, 312.

COURSE DESCRIPTION

LIT 150

MODERN EUROPEAN AND LATIN AMERICAN WRITERS

3 credits

Foundation

An examination of modern French, German, Hispanic, Italian and Russian literatures in English translation. A study of attempts by representative men and women to comprehend their times and their cultures and to provide literary expression to their understandings of modern life. Selected works of prose, poetry and drama. Short critical papers.

Descriptions of major programs follow; for dual majors, greater flexibility in individual programs can be arranged in consultation with departmental advisor.

CLASSICAL LANGUAGES

REQUIREMENTS

Required for Major in Classical Languages: 14 courses

- Ten courses in Latin (beyond 100-level)
- Four courses in Greek

COURSE DESCRIPTIONS

Greek

GRK 101-102

ELEMENTARY GREEK

3-6 credits

Core I

An introductory study of forms and syntax; includes reading and translation exercises and frequent practice in prose composition.

GRK 201-202
INTERMEDIATE GREEK
3-6 credits **Core I, II**
Review of elementary grammar; readings of selected prose and poetry.

GRK 301-302
GREEK READINGS
3-6 credits **Core I, II**
Readings selected to meet the individual needs of the students from Homer, lyric poetry, the Greek New Testament, Plato and the drama. May be repeated for credit.

Latin

LAT 101-102
ELEMENTARY LATIN
3-6 credits **Core I**
Thorough grounding in forms and vocabulary.

LAT 201-202
INTERMEDIATE LATIN
3-6 credits **Core I, II**
Review of elementary grammar; readings of selected prose and poetry.

LAT 301-302
LATIN READINGS
3-6 credits **Core I, II**
Readings selected to meet the individual needs of the students from Cicero, Livy, Horace, Vergil, Catullus, Ovid, Martial, patristic Latin, medieval Latin, Roman comedy and Latin inscriptions. May be repeated for credit.

RELATED STUDIES:

CLS 211 (F)
CLASSICAL MYTHOLOGY
3 credits
A study of the legends of Greece and Rome: what they are, how they have survived, their value to us. The legend of Troy emphasized. Audio-visual presentations, discussions, and research. All readings in English.

CLS 212 (S)
CLASSICAL DRAMA
3 credits
Greek and Roman tragedies and comedies in English translation discussed and interpreted in their historical and social environment and compared to modern and contemporary drama. No previous knowledge of Greek and Latin is required.

CLS 311 (F)
GREEK MASTERPIECES IN ENGLISH
3 credits
Some significant works in Greek literature read in English translation and interpreted in terms of their original setting. Application made to contemporary problems. No knowledge of Greek required.

CLS 312 (S)
LATIN MASTERPIECES IN ENGLISH
3 credits
The more important works in Latin literature read and discussed in terms of the history of the times. Their influence on later literature noted. No knowledge of Latin required.

MODERN LANGUAGES

FRENCH

REQUIREMENTS

Required for Major in French: 14 courses

- Ten French courses beyond 100-level (two from 400 list)
- Four courses in second language

COURSE DESCRIPTIONS

FRN 101-102
ELEMENTARY FRENCH
3-6 credits **Core I**
A study of the phonetics and grammar of French with graded work in reading, oral practice, and composition. One required hour

per week in the Language Laboratory.

FRN 201-202
INTERMEDIATE FRENCH
3-6 credits **Core I, II**
Review exercises in comprehending, speaking, reading and writing French. Cultural information on France. Weekly assignments in the Language Laboratory.

FRN 301-302
STRUCTURE AND STYLE
3-6 credits **Core I, II**
Review of grammatical principles and their practical application in written exercises and in the translation of standard English prose into French.

FRN 303-304
CONVERSATION AND COMPOSITION
3-6 credits
Oral and written practice aimed at providing students with varied experiences in communicating in French while improving their pronunciation, intonation, and fluency.

FRN 311-312
SURVEY OF FRENCH LITERATURE
3-6 credits **Core I, II**
Readings and discussions in French of selected literary works from the beginnings to 1800 and from 1800 to the present.

FRN 321-322
CIVILIZATION
3-6 credits
The first semester treats the political, social, intellectual, and artistic developments in France from earliest times to 1870, while the second semester emphasizes these cultural structures as they exist in contemporary French society. Lectures and readings serve as a basis for class discussion in French.

Areas of Study

FRN 401 (S)**OLD FRENCH LANGUAGE AND LITERATURE**

3 credits

The history of the formation of the French language, with special attention to the phonological and morphological development from Latin. Literary study, using texts in the original, of Alexis, Roland, Guigemar, Aucassin, Vergi, and the poetry of Villon.

FRN 411 (F, S)**SIXTEENTH-CENTURY LITERATURE**

3 credits

Core I

Readings and reports on works of representative authors of the 16th century.

FRN 425 (F, S)**CLASSICAL THEATRE**

3 credits

Core I

A study of the plays of Corneille, Moliere, and Racine.

FRN 431 (F, S)**EIGHTEENTH-CENTURY LITERATURE**

3 credits

Core I

Readings and reports on works of representative authors of the 18th century.

FRN 447 (F, S)**NINETEENTH-CENTURY NOVEL**

3 credits

Core I

A study of some of the major novels of the 19th century, including works by Constant, Stendhal, Balzac, Flaubert, Zola, and Huysmans.

FRN 453 (F, S)**MODERN POETRY**

3 credits

Core I

A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present.

FRN 455 (F, S)**MODERN THEATRE**

3 credits

Core I

A study of the plays of Claudel, Cocteau, Giraudoux, Anouilh, Montherlant, Sartre, Camus, Beckett, Ionesco, and Genet.

FRN 457 (F, S)**MODERN NOVEL**

3 credits

Core I

A study of the novels of Proust, Gide, Bernanos, Malraux, Sartre, Camus, and Robbe-Grillet.

GERMAN

REQUIREMENTS

Required for Major in German: 14 courses

- GER 401, 431, 480 or 481
- Seven electives in German (beyond 100-level)
- Four courses in second language

COURSE DESCRIPTIONS

GER 101-102**ELEMENTARY GERMAN**

3-6 credits

Core I

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Weekly audio-oral laboratory assignments.

GER 201-202**INTERMEDIATE GERMAN**

3-6 credits

Core I, II

Review exercises in comprehending, speaking, reading and writing German. Cultural information on German-speaking countries. Weekly assignments in the Language Laboratory.

GER 209-210 (S)**TRANSLATION OF SCIENTIFIC AND TECHNICAL GERMAN**

3-6 credits

Translation of selected scientific and technical articles from contemporary journals in bio-medicine, chemistry, economics, geology, computer science, and physics. Emphasis on the practical aspects of translating; training in use of specialized dictionaries and reference sources.

GER 301-302**CONVERSATION AND COMPOSITION**

3-6 credits

Core I, II

Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction.

GER 311-312**THEMES IN GERMAN LITERATURE**

3-6 credits

Core I, II

Major themes from medieval to modern times (love, death, suffering, political, and social involvement). Practice in conversation and composition. May be repeated for credit. Readings and discussions in German.

GER 320 (F, S)**STUDIES IN GERMAN CULTURE**

3 credits

Analysis of the contemporary culture of the two Germanies: life styles, national characteristics, folk tradition. Emphasis on the Germans' view of themselves, their view of their recent past. Focus varies from semester to semester. May be repeated for credit.

GER 330 (F, S)**GERMAN SCRIPT**

3 credits

Development of the ability to read texts in German Script from mid-20th century Europe to 18th century America. Brief history of German Script.

GER 401 (F)**HISTORY OF THE GERMAN LANGUAGE**

3 credits

The German language from its beginning to the present; particularly, the development of sounds, vocabulary, and the formation of standard High German.

GER 405 (F, S)**MEDIEVAL LITERATURE**

3 credits

Core I


Study and discussion of German literature from its beginnings to the end of the medieval period.

GER 421 (F, S)
LITERATURE OF THE 17th AND 18th CENTURIES
 3 credits **Core I**
 Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller.

GER 431 (F, S)
THE CLASSICAL AGE
 3 credits **Core I**
 Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller.

GER 441 (F, S)
LITERATURE OF THE 19th CENTURY
 3 credits **Core I**
 Study and discussion of the literature of romanticism, realism, and naturalism.

GER 451 (F, S)
LITERATURE OF THE 20th CENTURY
 3 credits **Core I**
 Study and discussion of modern German literature from 1880 to the present.

GER 480-481 
SEMINAR
 3-6 credits **Core I**
 Topics of investigation vary from semester to semester. Readings, reports, and discussion in a selected genre (novel, drama, lyric, short story). Seminar paper.

ITALIAN

REQUIREMENTS

Required for Major in Italian: 14 courses

- ITL 312, 451, 480 or 481
- Seven electives in Italian (beyond 100-level)
- Four courses in second language

COURSE DESCRIPTIONS

ITL 101-102
ELEMENTARY ITALIAN
 3-6 credits **Core I**
 An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Intended for those who are beginning the study of Italian. One required hour per week in Language Laboratory.

ITL 201-202
INTERMEDIATE ITALIAN
 3-6 credits **Core I, II**
 Exercises in composition, grammatical review, and selected readings with a view to introducing the student to the literature and civilization of the country.

ITL 301-302
LANGUAGE AND STYLE
 3-6 credits **Core I, II**
 Training in the use of correct idiomatic Italian and in the practical application of grammatical principles with a view toward improving the student's pronunciation and increasing his active vocabulary. Frequent use of audiovisual aids.


ITL 311-312
SURVEY OF ITALIAN LITERATURE
 3-6 credits **Core I, II**
 A comprehensive study of Italian literature from the Middle Ages to modern times, with comparative references to European literatures. Readings and discussions in Italian.

ITL 320 (F, S)
STUDIES IN ITALIAN CULTURE
 3 credits
 Analysis of contemporary Italian culture: life styles, national characteristics, folk tradition. Emphasis on the Italians' view of themselves, their place in and contributions to contemporary European civilization. Focus varies from semester to semester. May be repeated for credit.

ITL 331-332
READING LIST
 3-6 credits **Core I**
 Gives students an acquaintance with excerpts of Italian writers from Saint Francis of Assisi to the poets of knighthood (Pulci, Boiardo, Ariosto, Tasso).

ITL 401 (F, S)
HISTORY OF THE ITALIAN LANGUAGE
 3 credits
 Deals with the Italian language in its origins in the 7th century up to modern times. By means of a very few philologic and glottologic rules, the student will acquire a knowledge of the origins and transformation of Italian from Vulgar Latin, in chronological progression.

ITL 451 (F, S)
MODERN AUTHORS
 3 credits **Core I**
 Includes a survey of Italian narrative and poetic production in the late 19th century and in the 20th century.

ITL 480-481 
SEMINAR
 3-6 credits **Core I**
 Topics of investigation vary from semester to semester. Readings, reports and discussions of a selected genre (novel, drama, short story), with special reference to the works of Dante, Leopardi, and Manzoni. Seminar paper.

JAPANESE

JPN 101-102
ELEMENTARY JAPANESE
 3-6 credits
 An introductory study of the Japanese language; provides practice in comprehending, speaking, reading, and writing the language, as well as cultural information. Stress is on the development of conversational skills. Introduction to the KATAKANA writing system.

Areas of Study

RUSSIAN

REQUIREMENTS

Required for Major in Russian: 14 courses

- RUS 301-302 or 303-304, 401-402; SLA 403-404
- Four Russian or Slavic electives (beyond 100-level)
- Four courses in second language

COURSE DESCRIPTIONS

RUS 101-102

ELEMENTARY RUSSIAN

3-6 credits

Core I

A modified audio-lingual approach; regular exercises in Language Laboratory stress fundamental structural features of the contemporary spoken language.

RUS 201-202

INTERMEDIATE RUSSIAN

3-6 credits

Core I, II

Second part of two-year program based on modified audio-lingual principles. Continued emphasis on Language Laboratory work. Introduction to literature and civilization. Translation of business correspondence and readings in general science.

RUS 241-242

RUSSIAN LITERATURE OF THE 19th CENTURY

3-6 credits

Romanticism and realism in Russian literature. Readings from Pushkin, Griboedov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.

RUS 245-246

SOVIET LITERATURE

3-6 credits

Socialist realism as a doctrine of art and literature in the Soviet Union. Readings from Gorky, Mayakovsky, Babel, Olesha, Leonov, Zamyatin, Zoshchenko, Sholokhov, Ilf and Petrov, Simonov, Pasternak,

Yevtushenko, Solzhenitsyn, and others.

RUS 301 (F)

ADVANCED GRAMMAR AND CONVERSATION

3 credits

Core I, II

Advanced grammar exercises and conversation. Reading of a Russian newspaper. May be repeated for credit.

RUS 302 (S)

SCIENTIFIC RUSSIAN

3 credits

Core I, II

Theory and practice in translating scientific and technical texts.

Selected readings in economics, chemistry, physics, mathematics, geology, anatomy, and astronomy. May be repeated for credit.

RUS 303-304

ADVANCED READINGS AND COMPOSITION

3-6 credits

Core I, II

Selected readings of 19th and 20th century Russian prose and verse. Translation of selected scientific articles. Intensive exercises in translating standard English prose into Russian. May be repeated for credit.

RUS 401 (F)

HISTORY OF THE RUSSIAN LANGUAGE

3 credits

Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian.

RUS 402 (S)

OLD RUS' LITERATURE

3 credits

Selected readings from the epic, annalistic, and hagiographic literature from the 11th to the 17th centuries with special emphasis on *Igor Tale* and the *Primary, Kievan, and Galician-Volynian* chronicles. The beginnings of fiction.

RELATED STUDIES:

SLA 320 (S)

THE CULTURES OF THE COMMONWEALTH OF INDEPENDENT STATES

3 credits

Lectures and readings on independent nations of the Commonwealth of Independent States, plus the Tatars and the Jews. An in-depth view of the territory, demography, culture, media, education, language, and national attitudes of the various nations of this new union.

SLA 403 (F)

UKRAINIAN

3 credits

The study of the phonology, morphology, syntax, and vocabulary of a second Eastern Slavic language, Ukrainian, by noting the differences that exist between it and Russian.

SLA 404 (S)

POLISH

3 credits

The study of the phonology, morphology, syntax, and vocabulary of a Western Slavic language, Polish, by noting the differences that exist between Polish, Russian, and Ukrainian.

SPANISH

REQUIREMENTS

Required for Major in Spanish: 14 courses

- SPN 311-312, 313
- Seven Spanish electives beyond 100-level (two from 400 list)
- Four courses in second language
- Recommended: History 231, 232

Areas of Study

COURSE DESCRIPTIONS

SPN 101-102

ELEMENTARY SPANISH

3-6 credits

Core I

Designed to provide a fundamental capacity in conversation; audio-oral method employed. Grammar is presented strictly on a functional basis to facilitate speech and comprehension. One required hour per week in the Language Laboratory.

SPN 201-202 (F, S)

INTERMEDIATE SPANISH

3 credits

Core I, II

Review exercises in comprehending, speaking, reading, and writing Spanish. Cultural information on Spanish-speaking countries. Weekly assignments in the Language Laboratory.

SPN 301-302

ADVANCED CONVERSATION AND COMPOSITION

3-6 credits

Core I, II

Includes intensive oral and written exercises with a view towards improving the student's speaking and writing skills. Students make frequent use of audio aids.

SPN 307 (F, S)

COMMERCIAL SPANISH

3 credits

Intended to acquaint the student with commercial Spanish terminology combined with lectures, readings, and translations of business letters. Introduction of new vocabulary used in the business world with emphasis on Spanish American idiomatic expressions.

SPN 311-312

SURVEY OF SPANISH LITERATURE

3-6 credits

Core I, II

An introduction to the study of peninsular Spanish literature from the Middle Ages to the present. Readings and discussions in Spanish.

SPN 313 (F, S)

SURVEY OF SPANISH AMERICAN LITERATURE

3 credits

Core I

Reading and discussion of works from the colonial period to the 20th century, with special emphasis upon contemporary Latin American literature.

SPN 321 (F)

SURVEY OF SPANISH CIVILIZATION

3 credits

A cultural and historic study of Spain's past, examining the effects of Rome and Islam, the period of Spanish domination and later decline, and the status of present-day Spain.

SPN 322 (S)

SURVEY OF SPANISH AMERICAN CIVILIZATION

3 credits

A cultural and historic presentation of the diversity of Latin America from the Aztecs and Incas to the Conquest, the viceroalties, and the establishment of independent nations; course concludes with a thorough study of today's Latin America.

SPN 350-351

INTRODUCTION TO BILINGUAL-BICULTURAL STUDIES

3-6 credits

Linguistic and cultural problems in teaching English to speakers of other languages. Emphasis on materials, techniques and attitudes of teachers and students. Special emphasis on the vocabulary and idiom of the Caribbean. Cultural survey of present day problems in Puerto Rico and other Caribbean countries.

SPN 401 (F)

HISTORY OF THE SPANISH LANGUAGE

3 credits

Study of the formation of the language, its evolution and phonetic changes from Latin to the present modern pronunciations. Reading and discussion of the early Spanish texts and the development of the language in the early period.

SPN 405 (F, S)

LITERATURE OF THE MIDDLE AGES

3 credits

Core I

Emphasis is placed on such works as *Cantar de Mio Cid*, *Poema de Fernan Gonzalez*, and *Amadis de Gaula*; authors include Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Marques de Santillana, and los Manrique.

SPN 411 (F, S)

RENAISSANCE LITERATURE

3 credits

Core I

The works of Boscan, Garcilaso, Encina, Nebrija, Torres Naharro, and Lope de Rueda, and such works as *Tirant lo Blanc*, *Celestina*, and *Lazarillo de Tormes* form the basis of this period of literary activity.

SPN 415 (F, S)

DRAMA OF THE GOLDEN AGE

3 credits

Core I

Readings, reports, and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderon, Alarcon, and others.

SPN 419 (F, S)

CERVANTES

3 credits

Core I

Readings and discussions of *Don Quixote*. Other important works by Cervantes also discussed.

SPN 442 (F, S)

ROMANTICISM

3 credits

Core I

A study of the early 19th century which analyzes works of such authors and poets as Larra, Duque de Rivas, Zorilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer.

SPN 443 (F, S)

POETRY OF THE 19th AND 20th CENTURIES

3 credits

Core I

Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered.

SPN 448 (F, S)

THE SPANISH AMERICAN NOVEL

3 credits

Core I

Introduces students to the development of the contemporary Latin American novel through an

Areas of Study

analysis of the sociological and literary aspects of the work of various leading authors. Special attention to works by and about women. Class discussions and examinations in Spanish.

SPN 457 (F, S)

THE SPANISH NOVEL OF THE
19th AND 20th CENTURIES

3 credits

Core I

Reading and discussion of Spanish authors, their ideology and philosophies: Fernan Caballero, Galdos, Valera, Pio Baroja, Ala, Cela, Delibes, and Goytisolo.

SPN 480 (F, S)

SEMINAR

3 credits

Core I

Topics of investigation vary from semester to semester.

GEOLOGY AND PHYSICS

FACULTY

H. A. Bart, Ph.D., *Chair*

Professors: Hoersch, Longo

Associate Professors: Bart, Guttman

Assistant Professors: Smith, Strieb

GEOLOGY

FOUNDATION COURSES

GEO 151, 152, 153, 154, 155

REQUIREMENTS

Required for Major in Geology: 15 courses

- GEO 151, 152, 202, 203, 204, 205, 301, 302, 303, 401, 402, plus one elective geology course at the 200 level or above.
- CHM 111-112. MTH 113.

- Suggested courses: Students anticipating graduate work in geology or closely related areas are advised to elect courses in basic sciences, mathematics, computer science, Russian, German, or French.

COURSE DESCRIPTIONS

GEO 151 (F, S)

PLANET EARTH

3 credits

Foundation

An introduction to the physical processes that interact to change the interior and the surface of the earth, including weathering, earthquakes, volcanos, glaciation, marine erosion, "Continental Drift," and mountain building. Two hours lecture, two hours laboratory and field trip.

GEO 152 (F, S)

EARTH HISTORY

3 credits

Foundation

An introduction to the physical and biological processes that have modified the earth through geologic time. Emphasis will be on earth changes through geologic time, and the evolution of life from simple cells to the higher vertebrates. Laboratory experience will include study of fossils, and basic geologic principles. Two hours lecture, two hours laboratory, and field trip.

GEO 153 (F, S)

OCEANOGRAPHY

3 credits

Foundation

A study of the physical processes that affect the oceans of the earth. Emphasis will be on tides, currents, waves, chemistry of the sea, and geology of ocean basins. Three hours lecture.

GEO 154 (F, S)

ASTRONOMY

3 credits

Foundation

A contemporary view of the universe from the big bang to its possible ends, our sun and its planets, galaxies, the life and death of stars, white dwarfs, neutron stars, quasars, black holes, life on earth,

and the possibility of extraterrestrial intelligence.

GEO 155

ENVIRONMENTAL GEOLOGY (S)

3 credits

Foundation

An introduction to the geologic processes that shape our planet and modify environments. Such fundamental concepts as land-use planning, development of urban areas, hazardous waste disposal in natural systems, use of resources, and soil development and modification will be emphasized. Two hours lecture, two hours laboratory.

GEO 202 (F)

MINERALOGY AND
CRYSTALLOGRAPHY

4 credits

The identification of minerals using physical characteristics. An introduction to crystal chemistry and symmetry. Three hours lecture, two hours laboratory. Prerequisites: GEO 151, 152.

GEO 203 (S)

OPTICAL MINERALOGY

4 credits

An introduction to the theory of light transmission in crystals. Use is made of the polarizing microscope to study light phenomena in minerals. Lab is concerned with identification of minerals using thin section and oil immersion techniques. Two hours lecture, four hours laboratory. Prerequisite: GEO 202.

GEO 204 (S)

PETROLOGY

4 credits

Descriptive classifications of textures and processes of igneous, metamorphic, and sedimentary rocks with emphasis on hand specimen identification. Three hours lecture, two hours laboratory. Prerequisite: GEO 202.

GEO 205 (F)

PALEONTOLOGY

4 credits

A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the

stratigraphic record. Includes recent advances in paleoecology. Two hours lecture, three hours laboratory. Prerequisite: GEO 151.

GEO 301 (F)
SEDIMENTOLOGY

4 credits
Analysis and interpretation of sedimentary processes; classification and analysis of the common sedimentary rocks. Three hours lecture, three hours laboratory. Prerequisites: GEO 203, 204.

GEO 302 (S)
STRATIGRAPHY

4 credits
An introduction to physical stratigraphy, methods of correlation of rock and time rock units; the interpretation of paleogeography. Two hours lecture, three hours laboratory. Prerequisite: GEO 301.

GEO 303 (F)
STRUCTURAL GEOLOGY

4 credits
Description and mechanics of structural features such as: folds, joints, faults, lineations and foliations features. Laboratory is concerned with problem solving using geometric and stereographic techniques, cross-sections, and the examination of tectonic forces that cause deformation. Three hours lecture, two hours laboratory. Prerequisites: MTH 113, GEO 151, 152, 202, 204.

GEO 304 (S)
GLOBAL TECTONICS

3 credits
A review of the literature on the theory of plate movement and study of the dynamic earth system with implications as to the origins of magma, earthquakes, and sea-floor spreading. Three hours lecture, one hour laboratory. Prerequisites: GEO 151, 152.

GEO 305 (S)
GEOCHEMISTRY

3 credits
Discussions of the geochemical behavior of the elements comprising the earth. A look at the chemical processes involved with weathering, oxidation, and the

crystal chemistry of solids with application to the formation of stable compounds (phase theory). Three hours lecture. Prerequisites: CHM 111-112; GEO 151, 152, 202.

GEO 401 (F)
IGNEOUS PETROLOGY

4 credits
Classification, examination, and analysis of igneous rocks. Petrographic analysis of rock suites in thin section will be used to determine the cooling histories of the rocks. Two hours lecture, four hours laboratory, field trips. Prerequisites: GEO 202, 203, 204; CHM 111, 112.

GEO 402 (S)
METAMORPHIC PETROLOGY

4 credits
A review of the metamorphic facies concept with a look at the physical, thermodynamic, and geochemical processes concerned with mineral recrystallization. Detailed thin-section examination of the various metamorphic zones. Two hours lecture, four hours laboratory, field trips. Prerequisites: GEO 202, 203, 204; CHM 111, 112.

GEO 403 (S)
ECONOMIC GEOLOGY

3 credits
The study of ore deposits associated with igneous, metamorphic, and sedimentary rocks. Emphasis on classical ore deposits. A survey of the various origins for metallic and non-metallic deposits. Three hours lecture. Prerequisites: GEO 202, 204; CHM 111, 112.

GEO 404
ENVIRONMENTAL GEOLOGY

4 credits
An introduction to the fundamentals of environmental geology as related to land-use planning, development of urban areas, geologic processes and land form analyses, and engineering properties of Earth materials. Global development and environmental impact will be emphasized. Two hours lecture, three hours lab. Prerequisites: GEO 202, 204.

GEO 470 (F)
TOPICS IN ADVANCED GEOLOGY
3 credits
Selected topics dealing with contemporary developments in geology.

GEO 480 (F, S)
RESEARCH
1-4 credits
Supervised research in geology. Can be elected in fall, spring, or summer. Permission of Chair required.

PHYSICS

FOUNDATION COURSE

PHY 150

REQUIREMENTS

Required for Major in Physics: 15 courses

- PHY 105-106, 207, 208, 305, 307, 308, 311, 313, 411, 413.
- PHY 301 and 302 or 351 and 352.
- MTH 120, 221.

COURSE DESCRIPTIONS

PHY 105-106
GENERAL PHYSICS
4-8 credits
Vectors, elementary mechanics of point particles and rigid bodies, gravitation, simple harmonic motion and waves. Elementary optics, electromagnetism and DC circuits. Prerequisite: MTH 120. Three hours lecture, two hours laboratory; two terms.

PHY 120
SCIENCE, TECHNOLOGY, AND SOCIETY
3 credits
A study of some interactions between science, technology, and society. Topics include: the scientific community; history of technology; weapons; science, technology, and the arts; technology and change.

Areas of Study

PHY 121

WOMEN, MEN; SCIENCE, TECHNOLOGY

3 credits

An exploration of gender components in science and technology. Extra-scientific influences on scientific theories; why there are not more female engineers and scientists; how science views male/female differences; use of science to reinforce social attitudes; the political content of technology and how technology impacts differently on men and women. No prerequisites.

PHY 150 (F, S)

SOME REVOLUTIONS IN PHYSICS

3 credits

Foundation

A non-mathematical introduction to physics with emphasis on studying the processes of scientific change. Ancient astronomy and mechanics. The Copernican/Newtonian Revolution, Special Relativity. Current ideas in elementary particle physics.

PHY 207 (F)

MODERN PHYSICS I

3 credits

The breakdown of classical physics around the turn of the century and its replacement by relativity theory and quantum mechanics. Attention to the experiments leading to this break down. Course culminates with the Schrodinger equation and its application to simple potentials. Prerequisites: PHY 105-106; MTH 221 concurrently; or permission of instructor.

PHY 208 (S)

MODERN PHYSICS II

4 credits

Applies basic quantum theory developed in PHY 207 (the Schrodinger equation) to a series of problems in which it has had marked success. They include: atomic spectra; the physics of molecules including the chemical bond; condensed matter; the nucleus and fundamental particles. Three hours lecture, two hours laboratory. Prerequisite: PHY 207.

PHY 270-271

SPECIAL TOPICS

3-6 credits

PHY 301 (F)

ELECTRONICS

3 credits

Elementary DC and AC circuit theory; diodes, bipolar and field effect transistors; small signal analysis, feedback; operational amplifiers. Prerequisites: PHY 105-106 or permission of instructor. Laboratory required.

PHY 302 (S)

INTRODUCTION TO DIGITAL COMPUTER ELECTRONICS

3 credits

Diodes and transistors used as switching devices, Boolean algebra, 7400 integrated circuit series, counters, adders, general registers and basic computer hardware. Prerequisite: PHY 301 or permission of instructor. Laboratory required.

PHY 305 (S)

THERMAL PHYSICS

3 credits

The laws of thermodynamics; techniques of statistical mechanics. Applications to classical and quantum ideal gases and other systems. Kinetic theory and transport phenomena. Prerequisites: PHY 105, 106, 207 (or permission of instructor).

PHY 307 (F)

MATHEMATICAL PHYSICS I

4 credits

Infinite series, Taylor expansions, partial differentiation, multiple integration, differential and integral vector calculus, Fourier series. Partial differential equations, special functions, boundary value problems. Prerequisite: MTH 221.

PHY 308 (S)

MATHEMATICAL PHYSICS II

3-4 credits

Calculus of variations, linear algebra and eigenvalue problems, complex variables, the Fourier and Laplace transforms with applications to ordinary and partial differential equations. Prerequisite: PHY 307 or equivalent.

PHY 311 (F)

ELECTRICITY AND MAGNETISM I

3 credits

Electrostatics, magnetostatics, dielectrics and magnetic materials, Maxwell's equations, electromagnetic waves. Prerequisite: PHY 307 or equivalent.

PHY 312 (S)

ELECTRICITY AND MAGNETISM II

3 credits

Radiating systems; accelerated point charge, electric and magnetic dipoles, electric quadrupole radiation, antennas. Lorentz invariance of the Maxwell equations and some consequences thereof. Prerequisite: PHY 311.

PHY 313 (S)

STATES, WAVES, AND PHOTONS

4 credits

A modern introduction to optics encompassing matrix representations of optical systems and polarization states of light; the Jones calculus, the Mueller calculus and the Stokes representation; states of light as eigenstates of operators, expectation values, the bra-ket product and probability amplitudes; an approach to scalar diffraction through Green's theorem and Fourier Transforms; the electromagnetic field and its quantization. Three hours lecture, two hours laboratory. Prerequisite: PHY 311.

PHY 321

INTRODUCTION TO ASTROPHYSICS

3 credits

Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.

PHY 351

ADVANCED LABORATORY I

3 credits

Laboratory work with close faculty guidance, but emphasizing independent work and a professional approach. A selection of experiments from mechanics, acoustics, electricity and

magnetism, atomic and nuclear physics, experimental methods and instrumentation, error and data analysis. Prerequisite: PHY 207.

PHY 352

ADVANCED LABORATORY II

3 credits

Similar in purpose to PHY 351 but with material selected which will not duplicate the student's previous experience. Prerequisite: PHY 207.

PHY 353 (S)

INTRODUCTION TO MICROPROCESSORS

3 credits

Hardware and software of a well known microprocessor chip will be dealt with. CPU'S, I/O, memories and A/D will be some of the topics treated. Microprocessors available to conduct required experiments. Prerequisite: PHY 302 or permission of instructor.

PHY 411-412

MECHANICS

3-6 credits

Topics include the single particle and systems of particles in one, two, and three dimensions; rigid body motion; moving coordinate systems; the mechanics of continuous media; Lagrangian and Hamiltonian formulations; tensor methods; special relativity.

Prerequisites: General Physics, PHY 307 or MTH 222 or permission of instructor.

PHY 413-414

QUANTUM PHYSICS

3-6 credits

The Schrodinger equation and its application to one dimensional systems and the hydrogen atom.

Heisenberg's uncertainty relations, perturbation theory for degenerate and nondegenerate states.

Quantization of the electromagnetic field and applications of quantum mechanics to atomic, nuclear and solid state physics. Prerequisite: PHY 105-106, PHY 307 or equivalent.

PHY 470

SPECIAL TOPICS

3 credits

As interests dictate, special programs may be introduced into the curriculum, discussing specialized areas for group or independent study.

PHY 480-481

RESEARCH

1-2 credits

Individual studies and research, presentation of papers, familiarization with the literature.

HISTORY

FACULTY

Theopolis Fair, Ph.D., *Chair*
Professors: O'Grady, Rossi, Stow
Associate Professors: Cziraky, Fair,
Hennessy, Sheehy
Assistant Professor: Desnoyers

FOUNDATION COURSE

HIS 150

CORE COURSES

Approved sequences for Core I:

- American: (HIS 101, 201, 301).
- European Civilization: (HIS 102, 202, 302).
- Third World: (103, 203, 303).

When you select one of these three sequences, you must take all three courses within that same sequence.

Approved courses for Core II:

200- and 300-level Core I courses and 307, 308, 325, 328, 329, 331, 333, 335, 336, 337, 338, 339, 340, 342, 344, 346, 347, 348, 370, 415, 447, 452, 458, and 470.

For Core I, take 300-level courses last. For elective or Core II, take courses in any order.

REQUIREMENTS

Required for History Majors: 15 courses

History majors are required to take, in addition to the foundation course (HIS 150), a three (3) course sequence in one Area of Concentration (American, European, or Third World), four (4) additional courses in the same Area of Concentration (300 level or above), five (5) more courses (300 level or above) from the other Areas (3 from one and 2 from another), and two seminars in an Area of Concentration.

Dual Majors: Depending on the other courses taken by the student whose second major is history, the number of courses required ranges from 11 to 13. All students, single and dual majors, must take the seminar (two semesters). Dual education majors should take the seminar in their junior year instead of the required senior year so as not to conflict with senior student teaching.

Minors: Minors in history are required to take six (6) courses in addition to the Foundation Course (150).

Recommended Courses: The Department does not require, but strongly recommends, that majors take courses in a foreign language. Many graduate schools require a language for a degree.

Advanced Placement credit in history is granted to students who score 3 or above and, in the case of the history sequences, counts toward 100- and 200-level courses.

Areas of Study

COURSE DESCRIPTIONS

HIS 150

GLOBAL HISTORY

3 credits

Foundation

A study of the evolution and interactions of the cultures of Europe, America, Africa, and Asia from 1500 to the present, designed to give students a greater understanding of the relationships among modern nations so necessary in today's shrinking globe.

American Sequence

HIS 101

THE UNITED STATES TO 1840

3 credits

Core I

Traces the unfolding of American history from colonial times through Jacksonian America. The coming of the Revolution, the Revolution and its results, the Federalist experiment, and the Jeffersonian concept of democracy.

HIS 201

THE UNITED STATES FROM 1840 TO 1920

3 credits

Core I, II

Covers from the Jacksonian era to the end of World War I. The coming of the Civil War, the War and its results, Reconstruction, the Progressive Movement, and American involvement in World War I.

HIS 301

THE UNITED STATES IN THE 20TH CENTURY

3 credits

Core I, II

Covers from the end of World War I to the present. The Roaring Twenties, America between the wars, American involvement in World War II, America and Russia in the Cold War, the Vietnam era, and the U.S. and the world in the current era.

European Sequence

HIS 102

ANCIENT AND MEDIEVAL EUROPE TO 1400

3 credits

Core I

Traces the unfolding of western civilization from pre-history to the Renaissance. The legacies of Greece and Rome: the heritage of both early Christian Europe and the Byzantine and Islamic civilizations; the contribution of later medieval Europe to the governmental, economic, and intellectual growth of Europe.

HIS 202

EUROPE FROM THE 15TH CENTURY TO NAPOLEON

3 credits

Core I, II

Surveys profound changes in political, social, economic, cultural, and religious life of European society between the 15th and the end of the 18th centuries. Decline of feudal institutions, emergence of modern European states, and discoveries in the western hemisphere.

HIS 302

MODERN EUROPE SINCE 1815

3 credits

Core I, II

Industrialism and its impact on European society; decline of political liberalism and subsequent rise of nationalism; development of modern totalitarianism and the impact of two world wars on western society.

Third World Sequence

HIS 103

ASIA, AFRICA, AND THE AMERICAS TO 1500

3 credits

Core I

Beginning with pre-history, course examines and compares such diverse civilizations as ancient Egyptian, Hindu, Buddhist, Confucian, Inca, Kushitic, Mayan, Hebraic, Islamic, and Malian.

HIS 203

ASIA, AFRICA, AND THE AMERICAS: 1500-1920

3 credits

Core I, II

Focuses upon imperialism and its various manifestations in the non-western world and the emerging desire for independence among colonial nations after World War I.

HIS 303

ASIA, AFRICA, AND THE AMERICAS: 1920-PRESENT

3 credits

Core I, II

The devolution of European power to the independence of nation states and problems associated with that independence. North-South differences, Arab-Israeli conflict, the Cold War and the Third World, communism vs. capitalism, rise of Japan, apartheid, and terrorism.

AREAS OF CONCENTRATION

Area I: American History

HIS 324 (F, S)

HISTORY OF PHILADELPHIA

3 credits

The historical development of Philadelphia from colonial times to the present, emphasizing the way people lived, the impact of transportation upon city growth, and the changing nature of industrialization. Lectures combined with field trips. Cost of field trips requires an additional fee of \$40.00.

HIS 329 (S)

THE AMERICAN WOMAN

3 credits

Core II

An in-depth analysis of the experience of women in American culture. Special attention to the women's rights movement, women in the Industrial Revolution, and women in World War I and World War II.

HIS 331 (F, S)

AMERICA'S MILITARY PAST

3 credits

Core II

The impact of the American military establishment upon American society,

and the formation of defense strategy and foreign policy.

HIS 333 (F, S)
THE AMERICAN IMMIGRANT
3 credits **Core II**
The history of immigration to America and the ethnic impact upon American institutions.

HIS 337 (F, S)
THE BLACK EXPERIENCE IN AMERICA
3 credits **Core II**
The main themes in black history from the African experience to the present, with special attention given to slavery, protest movements, civil rights, and black achievement.

HIS 341
RUSSIAN-AMERICAN DIPLOMATIC HISTORY
3 credits
This course will survey the diplomatic relations between the United States and the Soviet Union from the American Revolution to the Reagan-Gorbachev summit of 1987.

HIS 342 (F, S)
HISTORY OF THE WESTWARD MOVEMENT IN AMERICA
3 credits **Core II**
A study of the American frontier emphasizing pioneer life, federal Indian policy, and the settlement of the Great Plains and Far West.

HIS 347 (F, S)
PRESIDENTIAL POLITICS; ROOSEVELT TO REAGAN
3 credits **Core II**
Historical analysis of presidential campaigns from 1900 to 1980, stressing the evolution of political techniques, issues, political parties, and presidential personalities.

HIS 402 (F, S)
THE AMERICAN REVOLUTION
3 credits
An intensive analysis of concepts and movements generated in the American colonies which resulted in revolution and separation of the British settlements.

HIS 413 (F, S)
JEFFERSONIAN-JACKSONIAN DEMOCRACY
3 credits
A detailed analysis of the development of the American political system in an increasingly democratic society.

HIS 415 (F, S)
THE AMERICAN CIVIL WAR
3 credits **Core II**
A detailed study of the disruption of the Union, stressing the causes, personalities, and human drama of the military events leading to Appomattox.

HIS 425 (F, S)
AMERICA AS A WORLD POWER, 1939-PRESENT
3 credits
The growth of government involvement at home and abroad since 1939; reading and analysis of original documents.

HIS 429 (F, S)
THE EMERGENCE OF MODERN AMERICA, 1877-1913
3 credits
The nationalization of American life, including the building of the railroad network, the rise of industry, the labor movement, immigration, and urbanization.

HIS 447 (F, S)
THE UNITED STATES IN THE PACIFIC BASIN
3 credits **Core II**
The interrelationship of the United States and the East Asian world in the modern period.

Area II: European Concentration

HIS 325 (F, S)
IMPERIALISM IN THE MODERN WORLD
3 credits **Core II**
A study of the expansion of western nations into the world of Asia and Africa in the 19th century, and the contraction of western influence in these areas in the 20th century.

HIS 328 (F)
WOMEN AND HISTORY
3 credits **Core II**
The history of women and their changing role and position in Western Europe from the Classical Period to the 20th century. Particular attention to explanations of changed status in successive historical eras; e.g., the Greeks, the Romans, etc.

HIS 335 (F, S)
GREEK CIVILIZATION
3 credits **Core II**
A survey that stresses the development of Greek civilization until the death of Alexander the Great.

HIS 336 (F, S)
THE ROMAN EMPIRE
3 credits **Core II**
A survey that places a special emphasis upon the Roman Republic and the Empire until 476 A.D.

HIS 338 (F, S)
THE EARLY MIDDLE AGES
3 credits **Core II**
A study of the period from 284 A.D. until c. 1000 A.D., emphasizing the synthesis of Roman, Christian, and barbarian cultures.

HIS 339 (F, S)
THE LATER MIDDLE AGES
3 credits **Core II**
A study of the period from c. 1000 A.D. until the Renaissance, focusing on the social, economic, intellectual, and political revival of Europe.

HIS 343 (F, S)
MODERN EUROPE TO 1870: THE AGE OF REVOLUTIONS
3 credits
A survey of Europe centered on the political and social development in Germany and France, and the impact of Russia's rise to world power.

HIS 345 (F, S)
MODERN EUROPE SINCE 1870: THE AGE OF VIOLENCE
3 credits
A detailed survey of Europe in the last hundred years.

Areas of Study

HIS 348 (F, S)
SLAVIC AND EASTERN EUROPEAN HISTORY
 3 credits **Core II**
 An examination of the rise of Slavic civilization and the present problems of Eastern Europe.

HIS 440 (F, S)
MODERN IRELAND
 3 credits
 An examination of the major political, social, and economic developments in Ireland since the Famine of 1845.

HIS 452 (F, S)
THE SOVIET UNION
 3 credits **Core II**
 The history of the Soviet Union, from 1917 to the present.

HIS 458 (F, S)
RECENT BRITAIN: EMPIRE TO WELFARE STATE
 3 credits **Core II**
 A detailed analysis of the decay of the Empire, the rise of the welfare state, and the impact of both on English life.

Area III: Third World/Non-Western

HIS 307 (F, S)
LATIN AMERICA: THE COLONIAL PERIOD
 3 credits **Core II**
 A survey that treats the Inca, Aztec, and Maya cultures. African influences as well as Spanish and Portuguese contributions to the development of Latin America.

HIS 308 (F, S)
LATIN AMERICA IN REVOLUTION
 3 credits **Core II**
 Revolutionary movements in Latin America from Independence to the present, with special emphasis on Cuba, Chile, Mexico, Brazil, and Central America.

HIS 325 (F, S)
IMPERIALISM IN THE MODERN WORLD
 3 credits **Core II**
 A study of the expansion of western nations into the world of Asia and Africa in the 19th century, and the contraction of western influence in these areas in the 20th century.

HIS 344 (F, S)
TOPICS IN AFRICAN HISTORY
 3 credits **Core II**
 An account of the empires, tribes, and development of Africa from earliest times to the present.

HIS 346 (F, S)
EAST ASIA IN THE MODERN WORLD
 3 credits **Core II**
 Changes in Modern Asia as a result of the rise of industrialism, urbanism, nationalism, and western influence.

HIS 350 (F)
TRADITIONAL CHINA TO 1840
 3 credits **Core II**
 This course will trace the social, political, cultural, and economic origins of the Chinese dynastic system, the elaboration and triumph of Confucianism, and the expansion of the empire south of the Yangtze and west to Central Asia. The course will conclude with an overview of the initial western intrusion into this wealthiest and most populous of traditional civilizations.

HIS 351 (S)
MODERN CHINA, 1840 TO THE PRESENT
 3 credits **Core II**
 Beginning with the traumas of the Opium Wars and Taiping Rebellion, this course will provide an overview of China's initial attempts at using foreign technology to safeguard the Confucian polity, the rending of the social fabric during the Republican and Civil War eras, the eventual triumph of Chinese Communism. The economic reforms of Deng Xiaoping and the events leading to Tiananmen Square will receive particular attention.

HIS 352 (F)
TRADITIONAL JAPAN TO 1840
 3 credits **Core II**
 For nearly two millennia, the people of Japan have shown a remarkable ability to marry religious, political, and cultural innovations from abroad with vigorous indigenous institutions. The result has been one of the world's most remarkable cultural syntheses. This course will trace the origins and development of the imperial system, the influence of Shinto and Buddhism, the development and elaboration of the early Shogunates, and conclude with an examination of Tokugawa society on the eve of Japan's "opening" to the west.

HIS 353 (S)
MODERN JAPAN, 1840 TO THE PRESENT
 3 credits **Core II**
 This course will assess the astounding transformation of Japan from Tokugawa seclusion to the dynamic superpower of today. Along the way such topics as the impact of the Meiji Restoration, Japan's "special relationship" with China and the Asian mainland, the grand catastrophe of World War II, and the resurgence of a demilitarized economic colossus in the Pacific Rim will be examined.

HIS 354 (F, S)
THE MODERN MIDDLE EAST
 3 credits **Core II**
 This course will focus on the Middle East from the Crimean War to the present, with emphasis on the dissolution of the Ottoman Empire, the role of Western imperialism in the creation of modern state in North Africa and West Asia, the Arab-Israeli conflict, oil and Arab nationalism.

HIS 370/470
SPECIAL TOPICS IN THIRD WORLD AREAS
 3 credits **Core II**
 Central America, the Middle East, China, India, etc.

Other Courses: Depending on the specific topic, these courses can be taken for either Area I, II, or III.

HIS 340 (F, S)**TOPICS IN MODERN HISTORY**

3 credits

Core II

An examination of selected topics illustrating the political, social, and cultural history of the modern world.

HIS 460 (F, S)**DIRECTED READINGS**

3 credits

Readings of certain basic books relating to a specific historical topic, theme, or era; assignments discussed in seminar-tutorial fashion.

HIS 480 (F, S)**SEMINAR**

3 credits

Methodology and historiography; bibliographical essay required.

HIS 481 (F, S)**SEMINAR**

3 credits

Writing a research paper.

HIS 482-485**SEMINARS**

3 - 6 credits

INTERNATIONAL STUDIES MINOR

Directed by: Joshua Buch, Ph.D.,

Finance Department

(See requirements for International Studies Minor on page 111)

JUSTICE AND SOCIETY STUDIES MINOR

Directed by: David Efroymson, Ph.D.,
Religion Department

REQUIREMENTS

Required:

Two courses from the following:

- ECN 201 (prerequisite is ECN 150), PHL 206, POL 260, REL 321.

Two courses from the following
Humanities group:

- ENG 160, 302; HIS 333, 337;
PHL 212, 338; REL 212, 223, 323.

Two courses from the following
group of Social Science, Physical
Science, and Business courses:

- CRJ 221, 387; ECN 203, 330
(prerequisite is ECN 150); EDC
201; HCA 371; MGT 363; PHY
120; POL 303; SOC 262, 350-351
(identical with SWK 350-351);
SWK 202.

LIFE SCIENCE MINOR

Directed by: Annette O'Connor,
Ph.D., Biology Department

REQUIREMENTS

Required: 6 Courses

- CHM 111 or CHM 161
- BIO 210
- 4 additional biology courses
from the 160/200/300/400 level
with at least two from the
300/400 level (these courses
must be approved by the Biology
Department Chairperson)

(Please note: BIO 210 is a
prerequisite for all higher
numbered BIO courses; college
chemistry is a prerequisite for
300/400-level BIO courses.)

MATHEMATICS AND COMPUTER SCIENCE

FACULTY

Richard A. DiDio, Ph.D., *Chair*
Professors: Albright, Longo,
McCarty

Associate Professors: Andrilli, DiDio,
Hofmann, O'Neill, Pomerance,
Wijsmuller, Wiley

Assistant Professors: Elliott, Kirsch,
McManus, Michalek, Turk

FOUNDATION COURSES

CSC 151, 152, 157

Which foundation course should
you take?

- Mathematics and computer
science majors are required to
take CSC 157.
- Students who plan to minor in
computer science or take a
significant number of computer
science courses should also take
CSC 157.
- Other science majors should
take CSC 152 or CSC 157.
- Business majors are advised to
take CSC 151.
- Students in the remaining
majors should choose between
CSC 151 and CSC 152.

REQUIREMENTS

- Required for a Major in
Mathematics: 15 courses
- Required for a Major in
Mathematics-Education: 12+
courses
- Required for a Major in
Computer Science: 18 courses
(B.A.) or 22 courses (B.S.)

Major programs are offered in
mathematics, mathematics
education, and computer science.
The choice of program should
depend on career objectives and

Areas of Study

personal interests. If there are any questions, the student should consult with the Department Chair or a departmental advisor.

Mathematics: (15 courses)

MTH 120, 221, 222, 240, 321, 341; CSC 157; PHY 105 and one from PHY 106, MTH 322, MTH 410, MTH 425; six additional mathematics courses from Section B below.

Mathematics-Education: (12+ courses)

MTH 140, 120, 221, 222, 240, 321, 330, 341; CSC 157; PHY 105 and one from PHY 106, MTH 322, MTH 410, MTH 425; one additional mathematics course from Section B below; courses specified by the Education Department.

Computer Science

Two major programs provide a strong foundation in the discipline of computing; one leads to a B.A. degree and the other to a B.S. degree. A major goal of these programs is the preparation of graduates for direct entry into the computing profession with sufficient background to make continuing contributions. The B.S. program in computer science provides the foundation for remaining current in computing science. It requires courses in related fields and provides breadth and depth in the discipline. The B.A. program is applications-oriented and has fewer required courses to provide greater flexibility. It is strongly recommended that students in the B.A. program choose an appropriate minor in consultation with a departmental advisor. Students selecting computer science as a major will normally choose either the B.A. or the B.S. program by the end of the sophomore year.

Computer Science (B.A.):

(18 courses)
CSC 157, 162, 254, 257, 264, 351, 354, 459, four computer science courses chosen from sections C and D below with at least one from section C; MTH 120, 140, MTH 221 or MTH 240; PHY 270-271; one approved course in probability and statistics.

Computer Science (B.S.):

(22 courses)
CSC 157, 162, 257, 264, 354, 362, 366, 457, 459, 464, two computer science courses chosen from section D below; MTH 120, 140, 221, 240; PHY 105-106, 270-271, one approved science course; one approved course in probability and statistics.

Students wishing to take advanced level (300-400) courses in Computer Science must be admitted to advanced standing in the program or have permission of the Chair. A certificate of advanced standing in Computer Science will be awarded when a student has completed MTH 120, MTH 140, and the required 100-200 level computer science courses with a C (2.00) average or better. Students may preregister for advanced level courses before certification of advanced standing in Computer Science but they will not be permitted to take such courses until certified.

Computer Science-Mathematics:

A dual major in Computer Science (B.A.)-Mathematics (25 courses) can be obtained by taking : CSC 157, 162, 254, 257, 264, 351, 354, 459; four additional computer science courses from Sections C and D below with at least one from section C; MTH 120, 221, 222, 240, 321, 341, 410; four additional MTH courses from Section B below; PHY 270-271.

A dual major in Computer Science (B.S.)-Mathematics (27 courses) can be obtained by taking : CSC 157, 162, 257, 264, 354, 362, 366, 457, 459, and 464; two additional

computer science courses from Section D below; MTH 120, 221, 222, 240, 321, 341, 410; four additional MTH courses from Section B below with at least one from MTH 322, 345, or 425; PHY 105-106 and PHY 270-271.

These dual majors require approval of the Dean and Department Chair.

COURSE DESCRIPTIONS

MATHEMATICS

SECTION A:

MTH 101 (F, S) INTERMEDIATE ALGEBRA 3 credits

Algebraic operations; linear and quadratic equations; exponents and radicals; elementary functions; graphs; systems of linear equations. NOTE : Not to be taken to fulfill major requirements. Students who have other college credits in mathematics must obtain permission of the Department Chair to enroll in this course.

MTH 113 (F, S) ALGEBRA AND TRIGONOMETRY 4 credits

Review of algebra; simultaneous equations; trigonometry; functions and graphs; properties of logarithmic, exponential, and trigonometric functions; problem solving and modeling.

MTH 115 (F, S) FINITE MATHEMATICS 3 credits

Linear systems, matrices and linear programming; permutations and combinations; elementary probability. Intended for business, social science and liberal arts majors who have had at least two years of high school algebra.

MTH 116 (F, S) INTRODUCTION TO CALCULUS 3 credits

Fundamentals of differential and integral calculus with applications of calculus to the management and

social sciences. Prerequisite: MTH 115.

MTH 120 (F, S)
CALCULUS AND ANALYTIC GEOMETRY I

4 credits

Functions of various types: rational, trigonometric, exponential, logarithmic; limits and continuity; the derivative of a function and its interpretation; applications of derivatives including maxima and minima and curve sketching; antiderivatives; the definite integral and approximations; the fundamental theorem of calculus; applications of integration including areas and volumes. Prerequisite: MTH 113 or equivalent in secondary school mathematics.

MTH 140 (S)
DISCRETE MATHEMATICS

3 credits

Propositional logic; methods of proof; sets; basic properties of integers; matrix operations; permutations and combinations; elementary probability; functions and relations; equivalence relations; partial orderings; graphs and digraphs; Boolean algebras and logic circuits; Karnaugh maps.

MTH 221 (F, S)
CALCULUS AND ANALYTIC GEOMETRY II

4 credits

Techniques of integration for various functions including algebraic, trigonometric, logarithmic, and exponential functions; inverse functions; growth and decay problems; improper integrals; applications of the integral including volume, work, surface area and arc length; parametric equations; polar coordinates and integration; conic sections; introduction to infinite series; Maclaurin series. Prerequisite: MTH 120.

MTH 222 (F, S)
CALCULUS AND ANALYTIC GEOMETRY III

4 credits

Vectors; vector functions; partial differentiation; multiple

integration; infinite series; Taylor expansions. Prerequisite: MTH 221.

MTH 240 (F, S)
LINEAR ALGEBRA

3 credits

Systems of linear equations; matrices; determinants; real vector spaces; subspaces; span and linear independence; basis and dimension; Gram-Schmidt process; linear transformations; change of basis; eigenvalues and eigenvectors; diagonalization; applications.

MTH 321 (F)
INTRODUCTION TO ANALYSIS

3 credits

Introduction to the foundations of the calculus; topology of the reals; limit theorems; fundamental theorems of the differential and integral calculus. Prerequisite : MTH 222.

MTH 341 (F)
ABSTRACT ALGEBRA

3 credits

Sets and mappings; groups, rings, fields, and integral domains; substructures and quotient structures; homomorphisms and isomorphisms; abelian and cyclic groups; symmetric and alternating groups; polynomial rings. Prerequisite: MTH 240, or permission of instructor.

MTH 470, 471, 472, 473
SELECTED TOPICS IN MATHEMATICS

3 credits

An introduction to specialized research, concentrating on one particular aspect of mathematics. The subject matter will vary from term to term. With approval of the Department Chair these courses may count in Section B.

SECTION B:

MTH 322 (S)
DIFFERENTIAL EQUATIONS

3 credits

Differential equations of the first order; linear differential equations of higher order; Laplace transforms; series solutions;

applications to the physical sciences. Prerequisite: MTH 222.

MTH 330 (F 1996, 1998)
MODERN GEOMETRIES

3 credits

Topics from Euclidean geometry, projective geometry, the classical non-Euclidean geometries; recent developments in geometry. Prerequisite: MTH 240.

MTH 345 (F 1995, 1997)
COMBINATORICS

3 credits

Permutations and combinations; generating functions; recurrence relations and difference equations; inclusion/exclusion principle; derangements; other counting techniques, including cycle indexing and Polya's method of enumeration. Prerequisite: MTH 221.

MTH 410 (F 1995, 1997)
PROBABILITY AND STATISTICS I

3 credits

Sample spaces and probability measures; descriptive statistics; combinatorics; conditional probability and independence; random variables; joint densities and distributions; conditional distributions; functions of a random variable; expected value and variance; Chebyshev's inequality; correlation coefficient; laws of large numbers; the Central Limit Theorem; various distribution models. Prerequisite: MTH 222.

MTH 411 (S 1996, 1998)
PROBABILITY AND STATISTICS II

3 credits

Measures of central tendency and variability; random sampling from normal and non-normal populations; estimation of parameters; maximum likelihood estimates; confidence intervals and hypothesis testing; normal, chi-square, Student's t, and F distributions; analysis of variance; randomized block design; correlation and regression. Prerequisite: MTH 410.

Areas of Study

MTH 421 (S 1995, 1997)

NUMERICAL ANALYSIS

4 credits

Basic concepts; interpolation and approximations; summation and finite differences; numerical differentiation and integration; roots of equations. Prerequisites: MTH 222, CSC 157.

MTH 424 (S 1996, 1998)

COMPLEX VARIABLES

3 credits

Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem; power series; infinite series; calculus of residues; contour integration; conformal mapping. Prerequisite: MTH 222, or permission of instructor.

MTH 425 (F 1996, 1998)

MATHEMATICAL MODELING

3 credits

Uses of mathematical methods to model real-world situations, including energy management, assembly-line control, inventory problems, population growth, predator-prey models. Other topics include: least squares, optimization methods, interpolation, interactive dynamic systems, and simulation modeling. Prerequisite: MTH 221.

MTH 430 (S 1995, 1997)

TOPOLOGY

3 credits

Topological spaces; subspaces; product spaces; quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: MTH 321 or 341.

COMPUTER SCIENCE

CSC 151 (F, S)

INTRODUCTION TO COMPUTING USING PACKAGES

3 credits

Foundation

Survey of computers and systems; mapping problems onto appropriate computer packages including a word processor, spreadsheet, and database management system. Applications for business and social science.

CSC 152 (F, S)

INTRODUCTION TO COMPUTING: SCIENCE APPLICATIONS

3 credits

Foundation

Survey of computers and systems; problem solving and applications using appropriate computer packages including a word processor and spreadsheet.

CSC 157 (F, S)

COMPUTING AND PROBLEM SOLVING

4 credits

Foundation

Software design methodology using C. Includes data representation, character, array and structured data types, data files, and functions. Development of algorithms for problem solutions. This course is taught in three hours of lecture and two hours of laboratory per week. Prerequisite: one semester of college level mathematics (or taken concurrently).

CSC 162 (F, S)

INTRODUCTION TO DATA STRUCTURES AND ALGORITHMS

4 credits

Continuation of CSC 157 using C++ and object-oriented design methodologies. Data structures including linked lists, stacks, queues, and binary trees. Recursive techniques, searching and sorting algorithms. This course is taught in three hours of lecture and two hours of laboratory per week. Prerequisite: CSC 157.

CSC 254 (S)

FILE AND DATA MANAGEMENT SYSTEMS

3 credits

Logical and physical data organization. Secondary storage devices, blocks, buffers and files. File types and file management: sequential, indexed and direct. File processing: control breaks, master file update, sort. Record addressing techniques, hashing, multikey processing. Structured programming in COBOL. Prerequisite: CSC 162 or permission of the Department Chair.

CSC 257 (F)

COMPUTER STRUCTURE AND ARCHITECTURE

3 credits

Introduction to computer structure and architecture with programming assignments done in assembly language. Machine language; assembly language; addressing techniques; CPU structure and function; interconnects; bus operations; input/output; subroutines; interrupts; error handling; alternative architectures. Prerequisite: CSC 162 or permission of the Department Chair.

CSC 264 (S)

DATA BASE MANAGEMENT SYSTEMS

3 credits

Components of data base systems, data base models: entity-relationship, relational, hierarchical, network; normalization, integrity, relational algebra, query languages, system security, distributed databases, social and ethical concerns. Implementation of case studies using a relational DBMS. Prerequisite: CSC 162 or permission of the Department Chair.

CSC 350 (S)

INTRODUCTION TO DATABASE MANAGEMENT

3 credits

Database design from requirements phase through implementation. Data models: relational, hierarchical and network.

Relational algebra and implementation of case studies using a relational DBMS. Functions of database administration, concurrency, backup and recovery, security, integrity and redundancy control. *This course may not be used as part of the major program in Computer Science.* Prerequisite: CSC 151 or 152.

CSC 351 (S)

PC APPLICATIONS

3 credits

The integration, customization, and automation of various computer packages for the personal computer including word processors, spreadsheets, databases, communication, graphics, and desktop publishing; graphical user interfaces, windowing, and multimedia technology. The emphasis is on sharing data and functionality among applications, and on custom application development. This course is taught in two hours of lecture and two hours of laboratory per week. Prerequisite: CSC 162.

CSC 354 (F)

DATA STRUCTURES

3 credits

An in-depth treatment of a variety of data structures and their associated algorithms. Stacks, queues, arrays and their address mapping functions. Linear lists, list operations, sequential and linked storage allocation, and garbage collection. Trees, binary trees, tree operations, and use of trees in sorting and searching. Multi-linked structures. Dynamic storage allocation; files and file structures; hash codes and comparison of search methods. Prerequisite: CSC 162.

CSC 450, 451 (F, S)

COOPERATIVE EDUCATION

3-6 credits

Prerequisite: permission of Department Chair.

CSC 459 (F)

SOFTWARE ENGINEERING

4 credits

Basic concepts and major issues of software engineering; project

planning; cost estimation; requirement definition; software design; implementation issues; programming language features; validation techniques; software maintenance. Requires a team project to design, develop, document, test, and maintain a software system. This course is taught in three hours of lecture and two hours of laboratory per week. Prerequisite: Senior Computer Science standing.

CSC 470, 471, 472, 473

SELECTED TOPICS IN COMPUTER SCIENCE

3 credits

An introduction to specialized research in computers and computing, concentrating on one particular aspect of computer science. The subject matter will vary from term to term. With approval of the Department Chair, these courses may count in section D.

SECTION C:

CSC 362 (F)

COMMUNICATION NETWORKS AND COOPERATIVE PROCESSING

3 credits

This course focuses on current methods and practices in the use of computer networks to enable communication. Topics include: physical layers, architectural layers, design, operation, management, the ISO standards. Both local and wide area networks are examined. Prerequisite: CSC 257.

CSC 366 (S 1996, 1998)

LANGUAGE THEORY AND DESIGN

4 credits

Programming languages: historical perspective and underlying serial computation model; theory: finite automata, Backus-Naur Form, representations, and grammars; and design: syntax, semantics, run-time implementation and application domains. Language paradigms including procedural, functional, logic, object-oriented, and

non-sequential processing. Mapping language paradigms onto problem domains, using high level languages code generators. This course is taught in three hours of lecture and two hours of laboratory per week. (Note: Credit will not be granted for both CSC 356 and CSC 366.) Prerequisite: CSC 257.

CSC 457 (S)

OPERATING SYSTEMS

3 credits

Principles and concepts of process and resource management in operating systems. I/O programming; interrupt mechanism; memory management; processor management; scheduler; traffic controller; device management; and information management and file systems. Prerequisite: CSC 354.

CSC 464 (S 1995, 1997)

THEORY OF ALGORITHMS

3 credits

Problem solving strategies including: divide and conquer, greedy, backtracking, and dynamic programming. Complexity analysis of algorithms. Introduction to complexity classes P and NP, with strategies for NP-complete problems. Iterative approximation methods. Introduction to parallel and distributed algorithms. Prerequisite: CSC 354.

SECTION D:

CSC 356 (F)

PROGRAMMING LANGUAGES

3 credits

Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix, and postfix notation; global properties of algorithmic languages including scope of declarations, storage allocation, binding, and subprograms; list processing, string manipulation, data description, and simulation languages; run-time representation of programs and data structures. (Note: Credit will not be granted for both CSC 356 and CSC 366.)

Areas of Study

CSC 453 (S 1995, 1997) **COMPUTER GRAPHICS**

3 credits

Introduction to computer graphics, beginning with elementary methods for picture generation. Graphical methods for forming various geometric figures (e.g., lines, circles, polygons). Representations of two- and three-dimensional objects. Other topics include: transformations, windows and clipping, hidden line/surface removal. Prerequisites: CSC 354 and MTH 240.

CSC 456 (F 1996, 1998) **ARTIFICIAL INTELLIGENCE**

3 credits

Introduction to an AI programming language such as LISP or PROLOG; AI in theory: knowledge representation and problem-solving techniques with production, blackboard, logic-based, and object-oriented systems; AI in practice: game playing, expert, natural language understanding, learning, perceiving, and robotic systems. Prerequisite: Advanced Standing.

CSC 458 (S 1996, 1998) **COMPUTER COMMUNICATIONS AND INTERFACING**

3 credits

Serial transmission of data. Theory and applications of operational amplifiers. Digital to analog, and analog to digital conversion. Elements of alternating current theory. Bus functions, transmission lines and modem theory. The course includes several required construction projects. Prerequisite: PHY 271.

MILITARY SCIENCE

All students enrolled in Military Science courses will participate, unless ineligible or exempt, in a weekly leadership laboratory, one weekend field training exercise per semester, and a physical training program as part of each Military Science course. This training augments the classroom instruction and is included with classroom instruction in determining the final grade.

COURSE DESCRIPTIONS

MSC 101 (F) **INTRODUCTION TO MILITARY SCIENCE I**

1 credit

An introduction to the Army ROTC program. Course material includes an introduction to the organization and functions of the U.S. Army as a system, and how the United States uses that system to provide for national security in war and peace. The course focuses on the national defense structure, organization of Army units, customs and traditions of the Army, principles of war, and the laws of land warfare. In addition, students will be introduced to the concepts of military leadership and management theories to prepare them to work with and lead others effectively and efficiently toward the accomplishment of specific organizational goals and objectives.

MSC 102 (S) **INTRODUCTION TO MILITARY SCIENCE II**

1 credit

Continuation of MSC 101. Provides additional instruction in military-related subjects of general student interest. This course includes an introduction to time management, writing and preparing effective presentations, administering physical fitness

programs, practical experience in military leadership, and first aid.

MSC 201 (F) **FUNDAMENTALS OF LEADERSHIP**

1 credit

Basic concepts of leadership and organizational behavior. This course is designed to examine the basic leadership and management functions in relationship to individual and group behavior. Course work includes familiarization with the concepts of leadership, the different types of leadership power, exploration of individual need and motivation, management skills and the decision making process, and leadership styles. Orientation is toward the application of basic leadership and management theory and the analysis of factors which provide the foundation for organizational success. This course also introduces the student to advanced individual military skills and applied leadership techniques necessary to be an effective junior leader in the U.S. Army.

MSC 202 (S) **AMERICAN MILITARY HISTORY**

1 credit

This course introduces the student to the study of military history as it applies to the military profession. The course will cover low-, mid-, and high-intensity conflicts from the American Revolution to the Vietnam War.

MSC 301 (F) **LEADERSHIP AND MANAGEMENT I**

3 credits

This course is designed to expose the student to tactical operations and teach the duties and responsibilities of small unit leaders. Course work includes planning, coordinating, and controlling small unit operations and preparation of oral and written operation orders. Emphasis is on troop leading procedures—training the student to lead and become proficient in analyzing missions received,

determining a course of action, planning tasks, coordinating activities, controlling and supervising work, delegating appropriate missions to others, and successfully executing military operations. Note: This class is held at the University of Pennsylvania. Prerequisites: MSC 101, 102, 201, 202.

MSC 302 (S)
LEADERSHIP AND
MANAGEMENT II

3 credits

This course is designed to build on the technical and tactical operations taught in MSC 301. Emphasis is on developing and supervising small unit missions. All course work supports and prepares the student for the ROTC Advanced Camp in the following summer. Additionally, students are given opportunities to apply these skills and techniques during each class period, leadership laboratories, and field training exercises. Note: This class is held at the University of Pennsylvania. Prerequisite: MSC 301.

MSC 401 (F)
LEADERSHIP DIMENSIONS AND
PRACTICE

3 credits

This course is designed to introduce the student to the Army training philosophy and mission-focused planning process. The student will learn how to prepare for and conduct training, how to evaluate training, and how to conduct an after-action review of a training session. The second portion of the course deals with leadership counseling and the ethical aspects of leadership, including the ethical decision-making model, and the ethical challenges facing the military leader. Note: This course is held at the University of Pennsylvania. Prerequisites: MSC 301 and 302, or permission of the Professor of Military Science.

MSC 402 (S)
CONTEMPORARY MILITARY
POLICY

3 credits

The first part of this course covers military law. The course will present the full range of the judicial system used in the military, and the appropriateness of judicial, non-judicial, and administrative procedures for maintaining "good order and discipline" in the service. The second portion of the course introduces the student to the Army personnel, logistic, and resource management systems; personal financial management; and the various support agencies and activities available to assist military units and individuals. The aim of the course is the final preparation of the student for his or her initial assignment as a Second Lieutenant in the U.S. Army. Note: This course is held at the University of Pennsylvania. Prerequisite: MSC 401.

MUSIC

(See Fine Arts.)

PHILOSOPHY

FACULTY

Michael Kerlin, Ph.D., *Chair*
Professors: Kerlin, Sullivan
Associate Professors: Dallery,
Fitzgerald, Lashchyk, Van Fleteren
Assistant Professors: Fallon, Moreau,
Phillips, Tsakiridou, Volpe

FOUNDATION COURSES

PHL 151, 152

CORE COURSES

Approved for Core I:

- General Topics: PHL 201, 206, 212, 264, 267, 269.

- Special Interest: PHL 270, 303, 305, 308, 309, 310, 311, 313, 323, 325, 326, 327, 328, 329, 330-336, 338, 341, 350, 370, 470. You may take *one* or *two* courses in philosophy to fulfill your Core IA requirement.

REQUIREMENTS

Required for Major in Philosophy:
13 courses

- Foundation course
- PHL 311 or 323
- PHL 264 or 325
- PHL 326, 327, 328, 329, 330, 480
- Four other courses beyond the Foundation level.

COURSE DESCRIPTIONS

PHL 151
CONCEPTS OF HUMANITY

3 credits

Foundation

A study of the concepts of humanity which underlie and affect thought, values, and actions in personal life and society.

PHL 152
MORAL INQUIRY AND MORAL
CHOICE

3 credits

Foundation

A study of the major moral theories related to how human beings do and ought to make moral decisions. Applications of these moral frameworks to contemporary moral issues will be an integral part of the course.

PHL 201 (F, S)
ART AND CREATIVITY
(AESTHETICS)

3 credits

Core I

A consideration of the philosophical basis for making judgments about the art experience. Designed to acquaint the student with the major features and thinkers of the classical, romantic, and modern periods.

Areas of Study

PHL 206 (S)
SOCIAL AND POLITICAL PHILOSOPHY
 3 credits **Core I**
 A critical examination of the nature of society through the reading and discussion of primary philosophical texts. Themes include: person and society, the foundation of the political order, human rights and law, justice and society, the natural and the social sciences.

PHL 212 (F)
CURRENT ETHICAL ISSUES
 3 credits **Core I**
 An application of ethical principles to present-day moral problems and controversies. Issues include sexual behavior, nuclear war, abortion and economic justice. Readings drawn mainly from contemporary philosophical authors.

PHL 213 (F)
PHILOSOPHY OF SPORTS
 3 credits
 A philosophical investigation of sports and athletics and their significance as a basic human experience. Topics include sports and the achievement of human excellence; sports as a basis of social and cultural structure; and the analysis of sports in philosophical movements such as Marxism and existentialism.

PHL 222 (S)
LOVE AND HUMAN SEXUALITY
 3 credits
 A philosophical exploration of human love and sexuality. Attention will be given to the connection between the philosophical approach and that of other disciplines. Works by authors such as Plato, Aristotle, Thomas Aquinas, Santayana, Ortega y Gasset and Sartre will be read.

PHL 223 (S)
PERSPECTIVES ON DEATH
 3 credits
 A study of various philosophical strategies for coming to terms with human death. Western and non-Western sources will be used. Philosophical views on death applied to problems such as aging

and dying, suicide and euthanasia, the medical conquest of death, and definitions of death. Of particular value for students choosing careers in the health professions.

PHL 264 (F, S)
CRITICAL THINKING
 3 credits **Core I**
 Aims at developing the skill of analyzing, interpreting and criticizing arguments from a variety of disciplines. Topics include: clarification of concepts, distinguishing between conclusions and reasons for conclusions, evaluation of arguments, and the recognition of fallacies.

PHL 267 (F, S)
PHILOSOPHICAL APPROACHES TO GOD
 3 credits **Core I**
 A study of philosophical positions about the existence and nature of God. Themes discussed include various concepts of God; the possibility of proof for the existence of God; and the philosophical dimensions of the religious experience.

PHL 269 (F, S)
WORK AND CULTURE
 3 credits **Core I**
 A philosophical consideration of the relationship between work and other dimensions of human life. Topics include: work and society, work and rationality, work and morality, work and play, work and creativity, work and alienation.

PHL 270
SPECIAL TOPICS
 3 credits **Core I**

PHL 303 (S)
AMERICAN PHILOSOPHY
 3 credits **Core I**
 A critical history of thought in North America tracing its gradual transformation from seventeenth century Puritanism to twentieth century pragmatism.

PHL 305 (F)
PHILOSOPHY OF COMMUNISM
 3 credits **Core I**
 An historical and systematic study of the Communist movement with special emphasis on the writings of Marx and Engels, but with attention to the development of theory and practice among contemporary Marxists.

PHL 308 (S)
THE PHILOSOPHY OF HISTORY
 3 credits **Core I**
 A study of some of the principal viewpoints about historical knowledge and historical development. Problems discussed include: subjectivity and objectivity, causality and explanation, perspective and relativity in history. The great schemes of historical interpretation also considered.

PHL 309 (F)
THE PHILOSOPHY OF THOMAS AQUINAS
 3 credits **Core I**
 A study of the philosophical problems which arose in the Middle Ages and of the solutions proposed by Thomas Aquinas. Texts principally from *Essence and Existence* and the *Summa Theologiae*.

PHL 310 (S)
EXISTENTIALISM
 3 credits **Core I**
 An approach to contemporary phenomenology and existentialism through philosophers such as Husserl, Heidegger, and Sartre. Topics include: the phenomenological method, human existence as process, meaning vs. absurdity, and the overcoming of alienation.

PHL 311
PROBLEMS OF KNOWLEDGE
 3 credits **Core I**
 A systematic investigation into the sources, limits, and nature of knowledge. Topics include: meaning and its relation to truth of statements; nature and criteria of truth, role of observation, perspective and conceptualization in the justification of knowledge claims.

PHL 313
METAPHYSICS
3 credits **Core I**

A study of the ways in which major philosophers have answered questions about the basic nature of reality.

PHL 323
THE PHILOSOPHY OF SCIENCE
3 credits **Core I**

The impact of scientific revolutions on observations and rationality in science studied through the writings of Kuhn and Feyerabend and others. Critical examinations of such concepts in science as scientific method, induction, verification, and falsification.

PHL 325 (S)
SYMBOLIC LOGIC
3 credits **Core I**

A study of the following aspects of symbolic logic: truth functional logic, quantificational logic, logic of relations, proofs of adequacy for the system used, undecidability and incompleteness, the relationship between modern logic and Aristotelian logic.

PHL 326
HISTORY OF WESTERN PHILOSOPHY: ANCIENT PERIOD
3 credits **Core I**

Philosophy in ancient Greece and Rome, with concentration on Plato and Aristotle.

PHL 327
HISTORY OF WESTERN PHILOSOPHY: MEDIEVAL AND RENAISSANCE PERIODS
3 credits **Core I**

From St. Augustine through the age of scholasticism to the Renaissance.

PHL 328
HISTORY OF WESTERN PHILOSOPHY: MODERN PERIOD
3 credits **Core I**

From Hobbes and Descartes to the Enlightenment, with concentration on the rationalists, empiricists, and Kant.

PHL 329
HISTORY OF PHILOSOPHY: CONTEMPORARY PERIOD
3 credits **Core I**

A survey of the principal philosophical movements of the last 100 years. Logical positivism, linguistic analysis, phenomenology, existentialism, and deconstructionism.

PHL 330-336 (F)
THE GREAT PHILOSOPHERS
3 credits **Core I**

An in-depth study of a single major thinker from the philosophical tradition. Emphasis on the critical reading of texts, although attention will be given to the historical setting of the thinker and his/her work. Previous thinkers have included Beauvoir, Heidegger, Augustine, and Wittgenstein.

PHL 338
CONCEPTS OF LIBERATION: WOMEN AND MEN
3 credits **Core I**

A critical study of the different accounts of inequality and oppression in the lives of men and women. Special attention to the ideals of liberation in the context of family, work and sexual relations and to the question of innate, or natural, differences between the sexes.

PHL 341
MINDS, BRAINS, AND MACHINES
3 credits **Core I**

An examination of human consciousness with a special emphasis on theories influenced by recent developments in psychology, in computer science, and in neurobiology. Topics include the relation between the mind and the brain, the possibility of building conscious machines, and the mental life of animals.


PHL 350 (F)
BUSINESS ETHICS
3 credits **Core I**

Business practices evaluated in the light of ethical principles. Special concern given to moral dimensions of management decision making and to the ethical problems of

consumerism and government control.

PHL 370
SPECIAL TOPICS
3 credits **Core I**

PHL 470
SPECIAL TOPICS
3 credits **Core I**

PHL 480 (S)
SEMINAR
3 credits 

An investigation of a philosophical theme chosen each year by the department. Students will write a paper on the theme and present their work to the seminar. The seminar has for its purpose the integration of previous philosophical study. Required of philosophy majors; open to others with approval of Chair.

PHYSICS

(See Geology and Physics.)

POLITICAL SCIENCE

FACULTY

Kenneth L. Hill, *Chair*
Associate Professor: Nathans
Assistant Professors: Balchunis, Brogan, Hill
Lecturers: Burns, Foley, Turzanski

FOUNDATION COURSE

POL 152

CORE COURSES

Approved courses for Core II:

- American Government: POL 110, 211, 215, 301, 302, 303, 304, 305, 310, 311, 314
- Comparative Government/Area Studies: POL 120, 221, 322

Areas of Study

- International Politics: POL 240, 341, 342, 343, 344
- Political Theory: POL 260, 361, 362, 363

REQUIREMENTS

Required for Major in Political Science: 15 courses

- American Government: POL 110, 211
- Comparative Government: POL 120, 221
- International Politics: POL 240, 341
- Political Theory: POL 260, 361
- Five electives in political science
- Senior Seminar: POL 480-481

All political science courses except 460-461 and 480-481 are open to all students.

POL 152 does not count for credit toward the major in political science.

Dual Majors: The seminar requirement is waived for those whose second major is political science if a seminar is required in the other major. Depending on the other courses taken by the student whose second major is political science, the number of courses required ranges from 11 to 13.

Required for Minor in Political Science: 6 courses

- POL 110, 211
- Four electives in political science

POL 152 does not count for credit toward the minor in political science.

COURSE DESCRIPTIONS

POL 152 (F, S)
INTRODUCTION TO POLITICS AND GOVERNMENT
 3 credits **Foundation**
 An introduction to the questions, principles, and methodologies of

the study of politics and government through the examination of contemporary issues in American and international politics. *This course does not fulfill major or minor requirements in political science.*

American Government

POL 110 (150) (F, S)
PRINCIPLES OF AMERICAN GOVERNMENT I
 3 credits **Core II**
 An examination of the political processes underlying American Government. Topics include: constitutional development, federalism, political culture, public opinion, political parties and interest groups, elections and campaigns, politics and the media, and civil rights and liberties. Required of all political science majors and minors.

POL 211 (150) (S)
PRINCIPLES OF AMERICAN GOVERNMENT II
 3 credits **Core II**
 Study of the structure and functions of American political institutions and their role in the making of public policy. Emphasis is on the study of Congress, the Presidency, the Bureaucracy, and the Supreme Court. Includes an introduction to the role of state and local governments and an overview of key issues of domestic and foreign policy. Required of all political science majors and minors. Prerequisite: POL 110 is recommended.

POL 215 (S)
PUBLIC ADMINISTRATION
 3 credits **Core II**
 An introduction to different concepts and aspects of public administration from a variety of theoretical viewpoints. Topics include: bureaucratic organization and leadership styles, program evaluation and productivity, budgeting, civil service, and public policy making.

POL 301 (S)
STATE AND LOCAL GOVERNMENT
 3 credits **Core II**
 A study of the state as a partner in the federal system; the states' constitutional development; and principles underlying state governmental organization, reorganization, and functions.

POL 302 (F)
AMERICAN CONSTITUTIONAL LAW I
 3 credits **Core II**
 A case study approach utilizing Supreme Court decisions provides an analysis of the governmental structure of the United States. Principal topics include: judicial review, separation of powers, federalism, extent and limit of Congressional and Presidential authority, the commerce and fiscal clauses of the Constitution.

POL 303 (S)
AMERICAN CONSTITUTIONAL LAW II
 3 credits **Core II**
 A case study approach utilizing Supreme Court decisions provides an analysis of the individual's relationship to the government under our Constitution. Principal topics include rights under the early Constitution, the incorporating process, First Amendment rights, procedural rights of the accused, equal protection and political rights. (Strongly recommended: Constitutional Law I).

POL 304 (S)
CONGRESS AND THE LEGISLATIVE PROCESS
 3 credits **Core II**
 The role of Congress in the legislative process; its internal operations and external political relations, especially with the President. Comparison of the characteristics of Congress with those of state legislatures and European legislative bodies.

Areas of Study

POL 305 (S)**THE PRESIDENT AND THE EXECUTIVE BRANCH**

3 credits

Core II

An examination of the growth, both in size and power, of the Executive Branch of the national government. Topics covered include: the mechanics and significance of Presidential elections, the institution of the Presidency, Presidential-Congressional relations, and the limits of Presidential power.

POL 310 (F)**POLITICAL PARTIES AND ELECTIONS**

3 credits

Core II

A view of the political problems of the United States as revealed in the major and minor political parties that have arisen during the country's history.

POL 311 (S)**WOMEN IN POLITICS**

3 credits

Core II

An introduction to the history and issues associated with the movement for women's political equality. Topics include: women's suffrage, equal protection and the ERA, job discrimination, and women in political campaigns and elected offices.

POL 314 (F)**MASS MEDIA AND POLITICS**

3 credits

Core II

An examination of the influence of the mass media upon the American political process. Emphasis is on the role of the media in campaigns and elections.

Comparative Government

POL 120 (F)**GOVERNMENTS OF WESTERN EUROPE**

3 credits

Core II

A political analysis of the constitutional principles and governmental organizations of England, France, and Germany. Required of all political science majors.

POL 221 (S)**LATIN AMERICAN POLITICS**

3 credits

Core II

An examination of the common institutions and political practices that characterize Latin American governments. Mexico examined as an illustration of these institutions and practices. Required of all political science majors.

POL 322 (F)**THE GOVERNMENTS OF EASTERN EUROPE AND RUSSIA**

3 credits

Core II

A study of the politics and government in the former Soviet Union and Warsaw Pact nations of Eastern Europe, including the rise and fall of totalitarian communism and the prospects for democratic development.

International Politics

POL 240 (F)**INTERNATIONAL RELATIONS**

3 credits

Core II

An analysis of the basic patterns and major factors underlying international politics. Consideration of current international problems. Required of all political science majors.

POL 341 (S)**THE GLOBAL VILLAGE**

3 credits

Core II

An analysis of the increasing functional obsolescence of the nation state under the pressures of transnational problems such as drugs, AIDS, and the environment. The emergence of regional and international organizations such as the European Community, the Organization of African States, and the Association of South East Asian Nations to meet these challenges. Required of all political science majors. Prerequisite: POL 240.

POL 342 (F)**U.S. FOREIGN RELATIONS I**

3 credits

Core II

A study of the diplomatic and military instruments of American foreign relations, the formal and

informal powers and processes by which policy is made, and the basic patterns of national interest and policy prior to World War II.

POL 343 (S)**U.S. FOREIGN RELATIONS II**

3 credits

Core II

An analysis of the main problems of American foreign relations from 1945 to the present. Prerequisite: POL 342.

POL 344 (F)**THE MIDDLE EAST AND THE WORLD**

3 credits

Core II

A study of modern Middle Eastern politics, with emphasis on the origins, issues, and present stage of the Arab-Israeli conflict; an analysis of Western and Soviet foreign policies in the area, with the emphasis on America's mideast diplomacy.

Political Theory

POL 260 (F)**SURVEY OF POLITICAL THOUGHT**

3 credits

Core II

An analysis of the major political writers from Plato to the present. Emphasis on each author's concept of the state, its function and end, and his solution to the problem of the reconciliation of the common good with individual freedom. Required of all political science majors.

POL 361 (S)**LIBERAL DEMOCRACY AND ITS CRITICS**

3 credits

Core II

Analysis of modern liberal democratic thought and the various criticisms of it from both the left and the right. Emphasis is on the reading of original sources by Locke, J.S. Mill, Rousseau, Burke, Marx, Nietzsche, etc. Required of all political science majors. Prerequisite: POL 260 is recommended.

Areas of Study

POL 362 (F)

MODERN POLITICAL IDEOLOGIES

3 credits

Core II

An inquiry into the nature of modern ideological movements such as National Socialism and Marxism against the background of pre-modern ideological movements. Emphasis on examination of the conceptions of man, history, state, and revolution. Includes analysis of current trends in "post-modern" ideological movements.

POL 363 (S)

THE AMERICAN POLITICAL TRADITION

3 credits

Core II

An inquiry into various religious and philosophical threads, from the Puritan "city on a hill" to the '60s counter culture, which combine to form the fabric of American political thought. Analysis of original source material is stressed.

Other Courses

POL 270, 370, 470 (F, S) SPECIAL TOPICS AND INDEPENDENT STUDY

3 credits

As interests indicate, special programs may be introduced into the curriculum discussing highly specialized problems for group or independent study.

POL 460 (F, S)

POLITICAL SCIENCE INTERNSHIP I

3 credits

Designed to give students the opportunity to apply their academic interest to relevant positions in the community. Placements will be provided and the students will be expected to give a comprehensive report on their experiences. Prerequisite: permission of the Chair.

POL 461 (F, S)

POLITICAL SCIENCE INTERNSHIP II

3 credits

With the permission of the Chair, a second semester involving a different experience may be undertaken.

POL 480 (F)

SEMINAR I

3 credits

A study of methods of research and scholarly writing. Directed research and reports on individual assignments. Required of all political science majors.

POL 481 (S)

SEMINAR II

3 credits

Supervised research and writing on major topic. Weekly presentation and group discussion of individual papers. Submission of written thesis. Required of all political science majors.

POLITICAL SCIENCE/PUBLIC ADMINISTRATION

(Administered by the Chair,
Political Science Department)

Required for Major in Political
Science/Public Administration: 13
courses

- POL 110, 211, 215, 260, 301, 302, 480, 481
- ECN 150, 201, 213 or QNT 213.
- ACC 101, 102

PSYCHOLOGY

FACULTY

David J. Falcone Ph.D., *Chair*
Professors: Burke, McCarthy, Rooney
Associate Professors: Falcone, Filicetti,
Gilligan, Kovatch, Oden, Smith
Assistant Professors: Pritchard, Watson
Emeritus Professor: Dondero

FOUNDATION COURSE

PSY 150

CORE COURSES

Approved Courses for Core II: 205, 210, 215, 220, 225, 230. You may choose *one* or *two* psychology courses to fulfill Core II requirements.

REQUIREMENTS

Required for Major in Psychology:
Track 1: 12 courses; Track 2: 12
courses; Track 3: 13 courses

Track 1: Pre-Graduate

- PSY 180, 310, 311, 330, 331
- Six electives in psychology, including three of the following: PSY 410, 415, 420, 425, 430
- MTH 115 or above (students anticipating graduate work in psychology are strongly advised to elect a second math course)

Track 2: General Studies

- PSY 180, 310, 311, 325 or 330
- Seven electives in psychology, including two of the following: PSY 410, 415, 420, 425, 430
- MTH 115 or above (students anticipating graduate work in psychology are strongly advised to elect a second math course)

Track 3: Work Psychology
(Preparation for careers and
graduate study in Consumer
Psychology, Human Factors,

Areas of Study

Industrial/Organizational Psychology, and Personnel Psychology)

- PSY 180, 230, 310, 311, 330, 331, 340, 345, and SPSS-X
- Two electives in psychology from the following: PSY 410, 415, 420, 425, 430
- MTH 115 or above (students anticipating graduate work in psychology are strongly advised to elect a second math course)
- CSC 350

Students are strongly advised to engage in relevant business or corporate activities through the PSY 485 practicum course

COURSE DESCRIPTIONS

PSY 150 (F, S)

INTRODUCTION TO PSYCHOLOGY

3 Credits

Foundation

Introduction to the study of human behavior for the non-psychology major or non-psychology minor. Emphasis on methods, theories, and findings of psychological research. Areas covered include social behavior, developmental psychology and personality, among others.

PSY 180 (F, S)

PRINCIPLES OF PSYCHOLOGY

3 credits

A survey of the field of psychology designed for the psychology major and minor. Areas covered will focus on the fundamental findings of psychological research and on the methodological issues. Areas covered include motivation, learning, cognition and perception, among others. Required for all psychology majors and minors; taken as first major course.

PSY 205 (F, S)

PERSONALITY DYNAMICS AND ADJUSTMENT

3 credits

An analysis of the human system, the dynamics of individual behavior, and a consideration of resources necessary for effective living as they are related to a better understanding of personal

adjustments in healthy persons developing toward maturity.

PSY 210 (F, S)

DEVELOPMENTAL PSYCHOLOGY

3 credits

A general study of the development of behavior and the human personality from conception through adulthood; special emphasis on childhood and adolescence.

PSY 215 (S)

AGING: PSYCHOLOGICAL ISSUES

3 credits

An introduction to the scientific study of aging. Theories, principles and research findings that are of a psychological nature will be studied.

PSY 220 (F, S,)

ABNORMAL PSYCHOLOGY

3 credits

An introductory course surveying the principal forms of mental disorders, with emphasis on causes, symptoms, and treatment. An analysis of the problem of maladaptive behavior and the study of certain personality and behavior patterns.

PSY 225 (S)

SOCIAL PSYCHOLOGY

3 credits

A study of the facts and theories dealing with the phenomena of social behavior. Focuses on individual behavior as it affects and is affected by the behavior of others.

PSY 230 (F)

INDUSTRIAL AND BUSINESS PSYCHOLOGY

3 credits

A study of those psychological principles, methods, and techniques which are especially relevant to an understanding of bureaucratic personnel, budgetary relationships, innovation, and the relationships of bureaucracy with clientele groups and the general public.

PSY 250 (F, S)

EFFECTIVE COMMUNICATION

3 credits

A deepening understanding of, and personal growth experiences in, the art of interpersonal communication. Attention given to listening and empathy, discussion and decision making, confrontation and conflict management, attitudinal systems and Gestalt, verbal and non-verbal communication, creative goal-setting, individual and social growth.

PSY 310 (F)

STATISTICS I

3 credits

An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisites: MTH 115 or higher.

PSY 311 (S)

STATISTICS II

3 credits

An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: PSY 310.

PSY 315 (F)

BAYESIAN STATISTICS FOR SOCIAL SCIENTISTS

3 credits

Clarification of the meaning of statistical calculations and analysis from the Bayesian point of view. Data descriptions and the problem of inferences are contrasted with traditional statistical treatments. Prerequisite: a two semester course in introductory statistics.


PSY 325 (S)


RESEARCH METHODOLOGY


3 credits

A study of the nature of scientific research methodology; emphasis on critical reading and evaluating reports of studies and research; development of skill in writing review papers; utilization of research literature in the behavioral sciences; data analysis and critiques of extant research. Prerequisites: PSY 180, 311.

Areas of Study

PSY 330 (F) 
EXPERIMENTAL PSYCHOLOGY I
 4 credits
 A laboratory course designed to introduce the student to the classical psychological experiments and the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes, and emotions. Prerequisites: PSY 180 and 311. Three hours lecture, two hours laboratory.

PSY 331 (S) 
EXPERIMENTAL PSYCHOLOGY II
 4 credits
 Lectures and discussions on modern experimental psychology. For laboratory work, the student plans, designs, and performs an original research experiment. Prerequisite: PSY 330. Three hours lecture, two hours laboratory.

PSY 340 (S) 
PSYCHOLOGICAL ASSESSMENT
 3 credits
 The selection, administration, and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest, and personality. Prerequisites: PSY 180 and 311.

PSY 345 (S)
HUMAN FACTORS
 3 credits
 Human Factors deals with the study of people in their working and living environments, and the application of this knowledge to practical problems encountered in the home, business, and industry. Prerequisites: PSY 311 and 230.

PSY 350 (F, S)
COUNSELING THEORIES AND PRINCIPLES
 3 credits
 Theories and principles of the counseling process. The dynamics of human change. The objectives, work, and continuing problems of counseling. Prerequisite: PSY 180.

PSY 360 (F)
READINGS IN PSYCHOLOGY
 3 credits
 Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar fashion. Prerequisite: PSY 180.

PSY 410 (F)
THEORIES OF LEARNING
 3 credits
 An analysis of the principal theories of learning in light of recent experiments in animal and human learning. Prerequisite: PSY 180.

PSY 415 (S)
COGNITIVE PSYCHOLOGY
 3 credits
 A systematic study of the research and theories developed to explain human memory, language, thinking, and consciousness. Prerequisite: PSY 180.

PSY 420 (S)
PHYSIOLOGICAL PSYCHOLOGY
 3 credits
 An introduction to the neurological and endocrinological bases of behavior. Consideration of sensory and motor processes, motivation and emotion, learning and memory. Prerequisite: PSY 180.

PSY 425 (F)
THEORIES OF PERSONALITY
 3 credits
 A systematic study of the principal theories of personality with particular emphasis on recent trends, research methodology, and personality measurement. Prerequisite: PSY 180.

PSY 430 (F)
HISTORY AND SYSTEMS OF PSYCHOLOGY
 3 credits
 An examination of the beginnings and development of psychology as a science and profession and of its various approaches, systems, fields, problems, and applications; the historical roots of these in philosophy, biology, and national culture. Prerequisite: PSY 180.

PSY 470-471 (F, S)
SPECIAL TOPICS IN PSYCHOLOGY
 3-6 credits
 Content will vary each year to present the psychological underpinnings of issues on the contemporary American scene. Such topics as the psychology of drug use, of prejudice, of human sexuality, of attitude change, of religion, and of gender issues will be treated in various semesters. Prerequisite: varies with topics.

PSY 480-481 (F, S)
SEMINAR
 3-6 credits
 Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: Junior or Senior standing as psychology major.

PSY 485-486 (F, S)
PSYCHOLOGICAL RESEARCH OR PRACTICUM
 3-6 credits
 Offers the student the option of conducting a research project under the direction of a faculty member or of obtaining practical experience serving in an institutional setting under professional supervision. Students preparing for careers or graduate study in clinical areas of psychology can select from numerous practicum placements. Program planned in advance. Prerequisite: Junior or Senior standing as a psychology major. One or two terms.

RELIGION

FACULTY

Geoffrey B. Kelly, S.T.D., *Chair*
Professors: Efroymsen, Grosnick, Kelly
Associate Professors: Keenan, Ramshaw, Schepers
Assistant Professors: Devlin, Halligan, TePas
Visiting Professor: Raphael
Lecturers: Angeles, Barnett, Campos, Echelmeier, Hallahan, Humm, Van Everbroeck, Wojnicki

FOUNDATION COURSES

REL 151, 152, 153

CORE COURSES

Approved for Core I:
 You may fulfill the requirements for Core I A by selecting any *one* or *two* religion course(s) *except* REL 151, 152, 153, 480.

REQUIREMENTS

Required for Major in Religion: 13 courses

- REL 151 and either 152 or 153.
- Eleven religion electives, including at least one from each of the four study areas (biblical, theological, historical, and religious) and REL 480. At least one of these electives must be in a religious tradition outside of Judeo-Christianity.

Religion majors may choose the major program as described above or:

Religion-Education:

- The religion major requirements (chosen, with the guidance of the Chairperson, in view of a career in teaching), plus EDC 101, 203, 204, 304, 306, 401, 470.

Note: Religion is a subject not accredited by the various states; therefore, the Pennsylvania

Instructional I Certificate is not issued to Religion-Education majors. This forms no impediment whatever to placement in schools that teach religion.

COURSE DESCRIPTIONS

REL 151 (F, S)

THE BIBLE

3 credits

Foundation

A study of the foundational religious literature of Jews and Christians; its origins and growth; the history and the religious and theological ideas of the people who produced these writings, and the Near-Eastern cultures and literature which contributed to them.

REL 152 (F, S)

CATHOLICISM IN THE MODERN WORLD

3 credits

Foundation

A historical and theological introduction to the study of Catholicism as it shapes and is shaped by the social, economic, political, and religious contexts of the late twentieth century. Selected contemporary issues facing Catholicism will be studied in light of the history of the issues and current theological thought.

REL 153 (F, S)

THE DYNAMICS OF RELIGION

3 credits

Foundation

A study of the diverse patterns of thought, behavior, and social structures which express human religious experience. Designed to foster an understanding of the importance of religion in society, in social change, and in personal identity and transformation.

Biblical Studies

REL 212 (S)

THE PROPHETS OF ANCIENT ISRAEL

3 credits

Core I

Prophecy and prophetic literature in the Bible. Prophecy as an institution in the Near East; its unique development in Israel.

Theological message of the biblical prophets.

REL 214 (F)

THE SYNOPTIC GOSPELS

3 credits

Core I

How did the Gospels develop? How historically reliable are they? What value have they as sources for a study of the person of Jesus of Nazareth? What is Form Criticism? Source Criticism? The state of contemporary biblical scholarship? These points will be illustrated through a guided study in the synoptic Gospels: Matthew, Mark, Luke.

REL 215 (S)

THE GOSPEL OF JOHN

3 credits

Core I

What is a gospel? The place of the Fourth Gospel in the context of early Christianity. A study of the meaning, literary technique, and theological themes of John. Brief study of other works in the Johannine group of writings.

REL 216 (F)

ST. PAUL

3 credits

Core I

A study of the earliest Christian literature: the letters of Paul: background and context—the primitive church; analysis of the texts; problems and tentative solutions; Paul's contribution to Christianity yesterday and today.

REL 311 (S)

CONTEMPORARY BIBLICAL ISSUES

3 credits

Core I

Specific problems in Israel or in New Testament Christianity as reflected in their literature. Content to be specified at registration.

Theological Studies

REL 220 (S)

THE CHURCH: ISSUES AND PROBLEMS

3 credits

Core I

A brief study of the origins of the Church, and an examination of the various modes in which Church has

Areas of Study

been and can be understood. Social structure and dynamics of the Church and her mission in today's world.

REL 221 (F)
ISSUES IN CHRISTOLOGY: JESUS AND HIS ACHIEVEMENT
 3 credits **Core I**
 The person, mission, and achievement of Jesus in the New Testament. Post-biblical church reflections on the tradition. Contemporary attempts to reinterpret Christology and to draw existential implications.

REL 222 (F)
THE SACRAMENTS
 3 credits **Core I**
 An inquiry into the origin and development of the Christian symbols highlighting some of the problems of modern sacramental theology.

REL 223 (F)
CONTEMPORARY MORAL ISSUES
 3 credits **Core I**
 Study discussion of a variety of moral perspectives on selected current issues: War. Racism. Sexual Conduct. Abortion. Euthanasia. Women's Rights. Capital Punishment.

REL 224
HUMAN EXISTENCE AND RELIGIOUS BELIEF
 3 credits **Core I**
 An inquiry into the nature of religious faith and into the issues that surface when believers come alive to the realities of modern life. The relation between action and contemplation. The question of faith and history. The combination of religious belief and morality. The influence of faith on social institutions and vice versa.

REL 225 (F, S)
A CONTEMPORARY THEOLOGY OF MARRIAGE
 3 credits **Core I**
 Critical investigation and re-evaluation of traditional assumptions about the meaning and function of human sexuality and inter-sexual relationships. The

historical and ideological circumstances in which they developed. The construction of a theology of marriage which takes critical account of contemporary physical and psycho-social sciences.

REL 320
THEOLOGICAL ISSUES
 3 credits **Core I**
 Selected theological topics of current controversy. Content to be specified at registration.

REL 321 (S)
PEACE, JUSTICE, AND THE CHRISTIAN TRADITION
 3 credits **Core I**
 Fundamental principles which have influenced religious thinking about and action for peace and justice. Principal focus on Western Christian thought, but peace and justice traditions of other world religions may also be included.

REL 322 (S)
WORSHIP, ART, AND LIFE
 3 credits **Core I**
 A study of the shape and practice of worship, especially in Roman Catholic liturgy. Skills in planning and criticizing liturgy. Past and present role of arts in liturgy: architecture, music, dance, etc. The Japanese tea ceremony demonstrating how ritual operates in a foreign but analogous ceremony.

REL 323 (F)
BIOMEDICAL PROBLEMS
 3 credits **Core I**
 Study/discussion of selected ethical dilemmas arising from recent advances in biology, medicine, and the behavioral sciences. E.g., Abortion/Euthanasia. Death. Genetic Intervention. Informed Consent. Human Experimentation. Presupposes no special knowledge of biology or medicine.

REL 324 (S)
CHRISTIAN SPIRITUALITY: THE SEARCH FOR GOD, FREEDOM, AND COMMUNITY
 3 credits **Core I**
 Historical and reflective study of the ways people in the Christian West

strive to find God, and thus to achieve self-integration in the context of ecclesial community. The origins and development of monasticism; the clerical ideal; the emergence of lay spiritualities; the means employed in reaching for perfection (asceticism, prayer, mysticism) and the call to discipleship.

Historical Studies

REL 330 (S)
EARLY CHRISTIANITY: CRISIS AND PROCESS
 3 credits **Core I**
 An exploration of the issues around which Christianity of the first four centuries took form: the struggle with the Roman Empire; the confrontation with Hellenistic philosophy and religion; Jewish Christianity, gnosticism, and the development of "orthodoxy." The effect of all this on the origin and shape of certain ideas and institutions such as Christology, church, papacy, interpretation of history, and sex.

REL 331 (F)
DEVELOPMENT OF CHRISTIANITY IN THE MIDDLE AGES
 3 credits **Core I**
 A study of religion in the Middle Ages and Renaissance periods concentrating on such popular movements as the Cathars, Waldensians, Fraticelli, Lollards, and Beguines, as well as on such phenomena as millenarism, reformation, and conciliarism. Relation of these movements and phenomena to the evolution of art, the inquisition, papacy, universities, and monasteries. The religious and ethical implications of humanism and capitalism.

REL 332
THE REFORMATION AND THE CATHOLIC RESPONSE
 3 credits **Core I**
 A critical audition of the religious voices of the Reformation era, with attention to their origins, context,

and peculiarities. Special treatment to the important reformers both on the Continent (Luther, Calvin, Zwingli, Bucer) and in the British Isles (Cranmer, Knox), as well as to pertinent Catholic thought (Council of Trent).

REL 334 (S)
MODERN RELIGIOUS THOUGHT
3 credits **Core I**

A critical examination of the great religious movements of the 19th and 20th centuries that have most contributed to the present religious situation. The encounter between Christian thought and philosophy and natural science. The confrontation between Existentialism and religious Idealism; the Oxford Movement; the Marxist critique of religion; the origins of biblical criticism; and the clash between conservatism and liberalism in Protestant and Catholic Church circles.

REL 336 (S)
RELIGION IN AMERICA
3 credits **Core I**

A study of the major religious movements within the Roman Catholic and Protestant churches in the United States from the American Revolution to the present day. Theological implications for the churches of such movements as the American Revolution, the Great Awakening, the Abolitionist Movement, the Civil War, the Gospel of Wealth, the Great Depression, World War II, Vatican II, and the nuclear threat.

Religious Studies

REL 240 (F)
THE GREAT RELIGIONS OF THE WORLD
3 credits **Core I**

A survey of great world religions, e.g.: Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism, and Taoism. Topics covered include: world view, basic doctrines and practices, major figures, role of women, and impact on contemporary world culture. Readings from scripture texts of

traditions studied, as well as secondary sources.

REL 243 (F)
RELIGIOUS ATTITUDES IN MODERN LITERATURE
3 credits **Core I**

An introduction to the meeting of religion and literature as found in the writings of various authors—both modern and contemporary. A variety of literary forms will be examined to discern the artists' religious intentions and/or attitudes. Topics include: the use of religion and religious language to critique the modern experience; modern visions of and attitudes toward religious experience; religion and technology; the confrontation between literature and a post-religious world. Identical with ENG 243.

REL 244 (F)
WOMEN AND WESTERN RELIGION
3 credits **Core I**

The influence of religion through history in the shaping and legitimation of women's roles and identity. The religious experience of women, and the extent to which feminine religiousness and holiness might be different. The recovery or refashioning of leadership roles. The feminist critique of "patriarchal" religion and theology; the consequent alternatives of disaffiliation or reconstruction.

REL 340 (F)
THE RELIGIONS OF INDIA
3 credits **Core I**

A study of the origin, development, and structure of Hindu traditions. Vedic beginnings. Major reform movements. Sects and schools of interpretation. Yoga, bhakti, and mystical traditions. Recent developments.

REL 341 (S)
BUDDHISM AND THE RELIGIONS OF CHINA AND JAPAN
3 credits **Core I**

A study and discussion of the rise of Buddhism and its subsequent division into Theravada and

Mahayana Buddhism. Its Chinese and Japanese mutations (Pure Land and Zen). Confucianism, Taoism, Shinto. Modern phenomena: Soka Gakkai and Maoism.

REL 342 (F)
JUDAISM
3 credits **Core I**

A study of the historical origin, roots, and developments of Judaism as a religion, as well as a cultural, civil, and ethnic group. The course will evaluate Jewish social and educational values as well as religious problems and attitudes among Jews today.

REL 344 (S)
ISLAM
3 credits **Core I**

Background and development: the prophet, the Qur'an, Muslim traditions and values; theological development, inner tensions, contemporary movements, confrontation with the non-Muslim world.

Special Studies

REL 270, 370, 470 (S)
SPECIAL TOPICS IN RELIGION
3 credits **Core I**

Content of the course will be announced whenever it is offered. May be repeated for credit.

REL 480 (F) L3
SEMINAR
3 credits

An introduction to scholarly research through the selection, writing, and small-group presentation of formal papers in a specific area determined by the instructor. Required of all religion majors; open to others approved by Chair. Prerequisite: 15 hours of religion. May be taken in junior or senior year.

Areas of Study

SOCIOLOGY, SOCIAL WORK, AND CRIMINAL JUSTICE

FACULTY

Finn Hornum, M.A., *Chair Professor*: Connors
Associate Professor: Tri Nguyen, Stull
Assistant Professors: Hornum, Montgomery, Otten
Instructor: Mariscotti

FOUNDATION COURSES

SOC 150, 155

CORE COURSES

Approved courses for Core II:
SOC 253, 257, 258, 260, 262, 263,
265, 305, 306, 308, 309, 310, 350,
351 (SWK 350, 351).

SOCIOLOGY

FACULTY

Francis Tri Nguyen, Ph.D., *Director and Internship Coordinator*
John Connors, Ph.D.
Judith Stull, Ph.D.

REQUIREMENTS

Required for Major in Sociology:
13 courses

SOCIOLOGY CORE: (6 courses)

- SOC 150, 301-302, 310, 480-481

FOCUS AREAS: (4 courses)

- General Studies: any 4 sociology courses above the 250 level
- Social Planning and Public Policy: SOC 201, 240, 257, 258, 265, 309, 350-351

- Community Development in a Pluralistic Society: SOC 240, 251, 260, 262, 305, 312

- Work and the Global Economy: SOC 240, 253, 263, 265, 306, 308; ECN 330

- Law and Society: CRJ 220, 221, 325, 385; SOC 240, 265, 309

Students completing any of the five Focus areas are strongly advised to engage in relevant public, community, business, or corporate activities through SOC 240: Sociological Practice.

ELECTIVES: (3 courses)

- Three courses in sociology, social work, or criminal justice. At least one of the three courses must come from the following: SOC 260, 262, 265, 308; CRJ 387; SWK 351.
- Dual Major: Individual program to be worked out in consultation with the sociology program director.

COURSE DESCRIPTIONS

SOC 150 (F, S)
PRINCIPLES OF SOCIOLOGY
3 credits **Foundation**
An introduction to the structure and functioning of society with emphasis on American society but with cross cultural comparisons. Theoretical concepts, empirical findings, and research methods are stressed.

SOC 155
CONTEMPORARY AMERICAN SOCIETY
3 credits **Foundation**
An investigation of selected aspects of present day American society such as discrimination, deviance, the role of religion, and family life. The emphasis is on experiential learning in that students participate in exercises designed to gather impressions and data which are then used to formulate concepts and theories.

SOC 201
SOCIAL PROBLEMS AND SOCIAL JUSTICE
3 credits

An exploration of how social conflict and social organization affect human and societal well-being. Topics: mental health, personal safety, economic well-being, and intergroup relations in an industrial society and a developing nation.

SOC 240 (340) (F, S)
SOCIOLOGICAL PRACTICE
3 credits

Sociological practice, through internships, provides opportunities to undertake, on-site, academically structured learning experiences in work settings related to their career interests and academic programs. Prerequisites: junior or senior status, GPA greater than 2.50, permission of coordinator.

SOC 251 (211) (F, S)
LOVE, MARRIAGE, AND PARENTING
3 credits

A consideration of the historical development of the family, variations of family structure in contemporary societies, and current trends in American family patterns.

SOC 253 (F)
SOCIOLOGY OF WORK
3 credits **Core II**

Analysis of the social organization of work in modern societies, the concept of career, the development of professionalization, the nature of work-satisfaction and the impact of work-satisfaction. Occupational subcultures such as law, medicine, public service, the military, and education considered.

SOC 257 (S)
THE CITY: CONFLICT AND CHANGE
3 credits **Core II**

A study of world cities; their growth and impact on personality; urban violence and its control; fragmentation, economic problems and city/suburban conflicts. Efforts at neighborhood development and

metropolitan planning will also be discussed.

SOC 258 (F)
POPULATION AND ECOLOGY
3 credits **Core II**

A study of the effects on the quality of life caused by population growth and patterns of consumption in developing and industrial nations. Trends in mortality and fertility, causes and consequences of these trends, and population policies explored.

SOC 260 (S)
SEX, POWER, AND
SOCIALIZATION
3 credits **Core II**

An exploration of male and female gender roles in the contemporary United States. An examination of socialization in childhood and adulthood, sexual politics, and power structures and dynamics within the family and the workplace. Special attention to the effects of class and race on gender role formation.

SOC 262 (F, S)
DYNAMICS OF ETHNIC
DIVERSITY
3 credits **Core II**

An analysis of the dynamics of race and ethnic relations in historical and contemporary contexts. Emphasis on the sociological analysis of racial discrimination and inquiry into the issues of pluralism and diversity in unity.

SOC 263 (F)
ANTHROPOLOGY
3 credits **Core II**

An anthropological study of the origin and descent of humans and of the role of culture in explaining the variations and constants in human behavior.

SOC 265 (S)
SOCIOLOGY OF LAW
3 credits **Core II**

The analysis of law as a social process in both historical and comparative perspectives. Emphasis will be on those who frame, implement, and administer the law. Other topics to be covered are: professional associations, ethics, the

changing nature of the legal system, and law as an agent of social change.

SOC 270, 370, 470 (F, S)
SPECIAL TOPICS IN SOCIOLOGY
3 credits

Designed to cover special or emerging interests in sociology. Topics have included: sociology of conflict, the Holocaust and its causes, computers and society, juvenile delinquency, and gerontology. Special permission needed to be used to meet major requirements.

SOC 301 (F)
SOCIAL STATISTICS I
3 credits

An introduction to such descriptive statistics as central tendency measures, variability, correlation and regression. Analysis of cross-tabulated data will be facilitated through the use of SPSSX computer software programs. No prior knowledge of computers assumed.

SOC 302 (S)
SOCIAL STATISTICS II
3 credits

Basically a course in inferential statistics beginning with a discussion of probability, binomial distributions, and normality. Both parametric and non-parametric statistics covered. Continued use of computer technology in the analysis of survey research results as well as those collected using qualitative methodologies. Prerequisite: SOC 301 or permission of instructor.

SOC 305 (F)
SOCIETY AND THE INDIVIDUAL
3 credits **Core II**

The study of the influence of society and culture, as mediated by the social group, on the social, cultural, and personal behavior of the individual. Prerequisite: SOC 150 or 155, or permission of instructor.

SOC 306 (S)
COMPLEX ORGANIZATIONS
3 credits **Core II**

An examination of the nature and effects of modern, large-scale organizations. Focus on both

private sector corporations and public sector bureaucracies. Prerequisite: SOC 150 or 155, or permission of instructor.

SOC 308 (S)
CLASS, STATUS, AND POWER
3 credits **Core II**

A study of economic, social and political inequalities and of social mobility. Emphasis on the causes, patterns, and consequences of such inequalities. The United States compared with other industrial as well as non-industrialized nations. Prerequisite: SOC 150 or 155, or permission of instructor.

SOC 309 (F)
HEALTH, MEDICINE, AND
SOCIETY
3 credits **Core II**

A study of the relationship between health and social factors, the interaction between health practitioners and patients, the health care delivery system, and some contemporary issues such as health care reform and modern biomedicine.

SOC 310 (F, S)
SOCIOLOGICAL THEORY
3 credits **Core II**

A survey of the development of social thought from August Comte to contemporary theorists. An attempt to see the evolution of social theory within the social context of the theorist's milieu. Prerequisite: SOC 150 or 155, or permission of instructor.

SOC 312
SOCIAL CHANGE AND SOCIAL
MOVEMENTS
3 credits **Core II**

An examination of the dynamics of social change, of sustained collective movements seeking change, and of the reactions they generate.

SOC 350-351 (363-364) (F, S)
SOCIAL WELFARE POLICY I and II
3 credits **Core II**
(Identical with Social Work 350-351.)

Areas of Study

SOC 480 (F)

RESEARCH SEMINAR I

3 credits

An overview of research methodology. Such research data collection methods as questionnaire designs, interviewing and observations will be discussed. Topics covered will include the ethics of human experimentation and evaluation techniques. Offered in alternate years.

SOC 481 (S)

RESEARCH SEMINAR II

3 credits

Original research in one area of social reality employing a research method of the student's choosing. Offered in alternate years. Prerequisite: SOC 480.

CRIMINAL JUSTICE

FACULTY

Laura Otten, Ph.D., *Director and Field Coordinator*
Finn Hornum, M.A.

REQUIREMENTS

Required for Criminal Justice Majors: CRJ 221, 222, 385, 485-486 and two additional criminal justice courses; SOC 150, 301-302, 310 and two sociology courses above the 250 level. At least one of the two criminal justice electives or one of the two sociology electives must come from the following list of courses: SOC 260, 262, 265, 308, CRJ 387, or SWK 351.

COURSE DESCRIPTIONS

CRJ 220 (S)

JUVENILE DELINQUENCY

3 credits

Comparative and historical survey of juvenile delinquency and juvenile justice. Study of the nature, magnitude, and social location of youth crime; analysis of causal theories; overview of programs

aimed at delinquency prevention and control.

CRJ 221 (F)

CRIME AND ITS CAUSES

3 credits

A study of the sociological and social psychological foundations of crime and delinquency. Topics include: the definition and meaning of crime and delinquency, the etiology of crime and delinquency, the history and development of the criminal law, criminal behavior systems.

CRJ 222 (S)

INTRODUCTION TO CRIMINAL JUSTICE

3 credits

A consideration of law enforcement, the administration of justice and the punishment and treatment of criminals. A survey of the sociological and social psychological processes affecting the criminal justice system. Topics include: the police function, crime prevention programs, the prosecutorial and defense functions, judicial administration and decision-making, institutional and community-based corrections, probation and parole.

CRJ 223 (S)

CRIMINAL LAW

3 credits

An exploration of the basic concepts and legal and sociological issues in criminal law. Attention to: development of law, legal elements of crime—both in general and specific offenses; legal requirements for criminal defenses; differing theories of punishment. Pennsylvania Crimes Code used as a reference.

CRJ 225 (F)

CRIMINAL PROCEDURE

3 credits

Constitutional issues related to the criminal justice process. Case analysis deals with issues such as search and seizure, stop and frisk, arrest, confessions, right to counsel, jury trials, and other significant Supreme Court decisions.

CRJ 270, 370, 470 (F, S)

SPECIAL TOPICS IN CRIMINAL JUSTICE

3 credits

Designed to address current issues in criminal justice. Topics: victimology, crime prevention, forensic criminology, counseling, criminal justice administration, and criminological research.

CRJ 324 (S)

POLICE: ORGANIZATION AND FUNCTIONS

3 credits

An investigation of the organization, legal powers, and functions of the police. Topics include: police organizational structure, police responsibilities such as patrol, arrest, and investigation, police-community relations, and topical issues on police and society, such as police use of force, police corruption, and required education and training for police.

CRJ 325 (S)

THE COURTS: ORGANIZATION AND FUNCTIONS

3 credits

An in-depth exploration of the structure, players, functions, and issues that make up the criminal courts of America. This exploration employs an adversarial approach, thereby mimicking the very essence of court procedure and developing students' awareness of the strengths and weaknesses of our criminal courts.

CRJ 326 (F)

CORRECTIONS: PRISONS, PROBATION AND PAROLE

3 credits

Intensive examination of the correctional process in the United States and other countries. Topics include: the objectives of punishment, sentencing policies and procedures, capital punishment, imprisonment and community corrections.

Areas of Study

CRJ 385 (F)**THEORIES OF DEVIANCE**

3 credits

An intensive analysis of contemporary theories of deviant behavior. Theories examined through seminar discussions of primary materials and critiqued by consideration of research findings. Social policy implications discussed and specific criminal justice programs considered in the light of these theories.

CRJ 386 (S)**SYSTEMS OF CRIMINAL BEHAVIOR**

3 credits

Selected criminal behavior systems examined in depth through readings, group projects, field interviews, and field trips. Offerings include such forms of criminal behavior as organized crime, elite deviance, violent crime, crimes without victims, and international terrorism.

CRJ 387 (F)**GENDER, CRIME, AND JUSTICE**

3 credits

An investigation of the facts and ramifications of being female and involved in the criminal justice system. Females considered in their roles as offenders, victims, and practitioners and contrasted with males to see whether sex makes a difference in handling, system response, outcome, practitioner success, etc. Efforts will be made to explain whatever differences are found between females and males.

CRJ 485 (F, S)**SEMINAR IN CRIMINAL JUSTICE**

6 credits

Students will be expected to conduct research in a criminal justice setting. The course will meet each week for two hours. Taken concurrently with CRJ 486. Prerequisite: CRJ 385.

CRJ 486 (F, S)**CRIMINAL JUSTICE INTERNSHIP**

6 credits

Field placement in law enforcement, legal, and correctional agencies. Students are placed according to their interests

and receive individual supervision by the agency. Field requirements are for 4 days per week, 6 hours per day for the entire semester. Must be taken concurrently with CRJ 485. Prerequisite: CRJ 385.

SOCIAL WORK

Council on Social Work Education
Accredited Baccalaureate Program

FACULTY

Sybil Montgomery, M.S.S., Ph.D.,
A.C.S.W., L.S.W., *Director*
Janine Mariscotti, M.S.W., L.S.W.,
Field Instruction Coordinator

REQUIREMENTS

Required for Social Work Majors:
SWK 102, 350, 351, 360, 361, 460,
461, 480, 481, 495; PSY 180 and
210; ECN 150; POL 150; BIO 156;
SOC 150, 301-302, 310; and two
200-300 level professional
development courses to be selected
with your advisor. At least one of
these two professional development
courses may come from the
following list of courses: SOC 260,
262, 265, 308; CRJ 387.

COURSE DESCRIPTIONS**SWK 102 (202) (F)****INTRODUCTION TO SOCIAL WORK AND SOCIAL WELFARE**

3 credits

This survey course provides an overview of the social work profession, the social welfare system, social work methods, and fields of practice. A basic understanding of human needs, of populations at risk in society, and of the social service delivery system will be provided.

SWK 270, 370, 470 (F, S)**SPECIAL TOPICS**

3 credits

Designed to address contemporary issues in social policy and social work practice. Topics include

gerontology, mental health, child welfare, family violence, and human sexuality. Students are advised to check with the Program Director about current offerings and to provide suggestions for future topics.

SWK 350 (363) (F)**SOCIAL WELFARE POLICY I**

3 credits

Core II

Provides a historical examination of the development of the social welfare system in the United States, and societal values as they impact on policy formulation and implementation. A framework for analysis of social welfare policies is delineated and applied to historical and contemporary social welfare policies and programs. Identical with SOC 350. Prerequisites: SOC 150, POL 150.

SWK 351 (364) (S)**SOCIAL WELFARE POLICY II**

3 credits

Core II

Explores contemporary social welfare policy in the United States including income supports, health, aging, child welfare, mental health, and family policy. The role of political process in policy formulation and the impact of social welfare policies on minority groups and women will be examined. Identical with SOC 351. Prerequisites: SWK 350, ECN 150. Taken concurrently with SOC 310.

SWK 360 (361) (F)**PREPARATION FOR PROFESSIONAL PRACTICE**

3 credits

Designed to lay the foundation for social work practice. Systems theory model of social work practice will be explored. The interaction between human behavior and the social environment will be examined with regard to the helping process. Interviewing skills will be developed. Prerequisites: SWK 102, BIO 156, PSY 180. Taken concurrently with PSY 210.

Areas of Study

SWK 361 (362) (S)

GENERALIST SOCIAL WORK PRACTICE I

3 credits

The Generalist Model of Social Work practice will be examined. Knowledge of social work assessment will be gained, and opportunity will be provided to develop skills in this area. Prerequisite: SWK 360.

SWK 460 (461) (F)

GENERALIST SOCIAL WORK PRACTICE II

3 credits

This course focuses on social work intervention with individuals, families, groups, and communities. In addition to exploring the Task Centered Model of social work practice, students will be introduced to other contemporary models of social work intervention. Prerequisites: SWK 360, 361.

SWK 461 (462) (S)

GENERALIST SOCIAL WORK PRACTICE III

3 credits

Both single subject and multi-group research designs will be explored. Students will engage in their own original research and will also evaluate current social work practice research literature. Prerequisites: SWK 460, SOC 301, 302.

SWK 480 (463) (F)

PROFESSIONAL PRACTICUM I

12 credits

An educationally directed practicum for two days per week provides the student with an opportunity to develop the relationship between social work theory and practice. Taken concurrently with SWK 460.

SWK 481 (464) (S)

PROFESSIONAL PRACTICUM II

12 credits

A continuation of Professional Practicum I, this course provides a social work practice experience in which the student integrates the social work theory, skills and values that he or she is learning in the

classroom. Taken concurrently with SWK 461.

SWK 495 (465) (S)

PROFESSIONAL CONSIDERATIONS IN SOCIAL WORK

3 credits

Examines the nature of professions and the history of social work. Professional dilemmas and ethical decision making with special populations are explored. Students will be given an opportunity to assess their own values as they assimilate the value base of the social work profession. Taken concurrently with SWK 461 and 481.

URBAN STUDIES MINOR

Coordinated by: Richard T. Geruson, Ph.D., Economics Department

REQUIREMENTS

Required:

Three courses from the following:

- SOC 257, 258
- HIS 329, 333
- ECN 351, 404
- POL 240, 241; EDC 330

Three courses from the following:

- ECN 203
- HIS 324, 337
- SOC 306, 308

WOMEN'S STUDIES MINOR

Directed by: Elizabeth Paulin, Ph.D., Economics Department

Designed as a minor for women and men students of any major who wish to examine the influence of gender as a cultural and historical variable and to explore the quality of women's lives. The list of courses available to those minoring in Women's Studies changes as new courses become available; students should check with the Director for the most up-to-date information on available courses.

REQUIREMENTS

From the following list, students must select their six courses from at least 3 different departments:

- WST 270 (Women's Studies Seminar)
- COM 314*
- CRJ 387
- ENG 160
- ENG 302
- ENG 335
- ENG 435
- HIS 372* (Third World Women)
- PHL 330 (The Great Philosophers: Foucault)
- PHL 338
- PHY 121*
- POL 311
- PSY 371 (Psychology of Women)
- REL 244
- REL 311
- SOC 260
- SOC 270 (Sexism and the Law)
- SPN 270 (Women Writers in Spanish)

* These courses are available on an occasional basis. Other Special Topics courses are also available on an occasional basis.



Business Administration



The mission of the School of Business Administration is to offer educational programs which prepare students for a purposeful life by integrating Lasallian values with current business management skills.

Through its faculty, curricular environment, and linkages with the business community, the School of Business creates a value-centered educational community as the setting for its educational programs.

Within this context it seeks to provide an appropriate blend of contemporary business theory and practice, placing paramount importance on teaching and learning enriched by scholarly research and professional activity.

The primary purpose of the School of Business undergraduate program is to prepare students to lead an enriched personal life and to prepare them to enter upon a successful professional career through exposure to traditional liberal arts and a contemporary business education.

The School of Business strives to fulfill its mission by requiring students to develop communications, analytic, and decision-making skills, by developing in students the ability to define and synthesize, by helping students to form independent, well-reasoned judgments, and by exposing students to common business research methods and practice.

Teaching and learning are of paramount importance. We believe we should:

- know each student as an individual;
- challenge each student to work toward attaining his or her best performance level;
- utilize the curriculum to help students identify the ethical dimensions embedded in business management;
- immerse students in a learning environment which blends current business theory and practice.

Continuous quality improvement processes ensure that the many offerings of the School of Business are of the highest quality. The program is regularly evaluated in terms of standards established by the American Assembly of Collegiate Schools of Business; standards and norms established by various professional bodies such as the American Institute of Certified Public Accountants, the American Management Association, and the American Marketing Association; and an ongoing dialogue and review with business executives and professionals.

The School of Business Administration prepares students to develop the skills and experience to move from the University into management/professional positions in business, government, and non-profit organizations. The internship and cooperative education programs provide hands-on experience in business organizations; recent participants have included SmithKline Beecham, Cigna, Sun, Arthur Andersen, and Tasty Baking. Over 100 executives volunteer their time each year to come to classes to meet with students. Many of the business clubs set up field trips to area businesses so that students can see professional operations firsthand.

In addition, the Business Advisory Board, which is composed of senior executives from companies throughout the Delaware Valley, advises the Dean of Business on contemporary developments in business practice and how to help students prepare for professional careers.

In short, when you're a La Salle University business major, you have a number of competitive advantages. Your "real world" experiences and academic preparation put you on the right path toward success.

THE CURRICULUM

The program leading to a Bachelor of Science degree in Business Administration consists of 120 credits (minimum 38 courses). The liberal arts and science studies and business foundation courses tend to be concentrated in the first two years, and the professional studies in the last two years.

THE LIBERAL ARTS CORE

The Liberal Arts Core Curriculum provides you with an opportunity to build a strong foundation for the future. It encourages you to work out a sys-

Curriculum

tem of values rooted in the best thinking of the great minds of the past and present.

While the Core allows you some freedom of choice, it includes guidelines which should provide coherence in your college education. The Core Curriculum prepares you to adapt to the ever-changing world by exposing you to a well-thought-out plan aimed at encouraging four years of intellectual and personal growth. The Liberal Arts Core consists of three parts: Foundation, Core I, and Core II.

Foundation Courses (9 courses, to be completed by the end of the sophomore year)

These courses are most directly related to the liberal education approach that is basic to La Salle's aims and traditions. You will take foundation courses in writing, literature, history, computer science, philosophy, science, religion, and social science.

Core I Courses (5 or 6 courses, to be completed by the end of the junior year)

These courses are an opportunity to build upon the foundations you have in place. You take three courses in Religion and Philosophy. You also take a sequence of three courses in *one* of these:

- History
- Fine Arts (Art or Music)
- Foreign Languages (Classical languages, French, German, Hebrew, Italian, Japanese, Russian, Spanish)
- Literature

Each sequence has been planned by the individual department to provide growth in the knowledge and skills of that subject.

Core II Courses (1 or 2 courses)

- Economics 201 and 1 course from a subject listed below, not in the subject you choose for your Core I sequence.
- Fine Arts (Art or Music)
- Foreign Language Literature
- History
- Literature
- Social Science (Economics, Psychology, Political Science, Sociology)
- Communication
- Education

ADDITIONAL ARTS REQUIREMENTS (4 courses)

- Math 115 and 116 or equivalent
- Introduction to Psychology (PSY 150)
- Economics of International Business (ECN 305)

BUSINESS CORE (12 courses)

The Business Core is intended to introduce you to the four functional areas in business—accounting, finance, management, and marketing—as well as to commonly used analytical concepts including quantitative analysis and law. The following courses constitute the Business Core:

- Principles of Accounting (ACC 101, 102)
- Business Statistics (QNT 213)
- Presentation Skills for Business (MGT 200)
- Legal Environment of Business (LAW 202)
- Organizational Behavior (MGT 201)
- Principles of Marketing (MKT 300)
- Management Information Systems (MIS 300)
- Introduction to Financial Markets and Institutions (FIN 303)
- Fundamentals of Financial Management (FIN 300)
- Production and Operations Management (MGT 300)
- Business Policy (MGT 485)

PROFESSIONAL STUDIES (4 or 8 courses)

These courses provide an intensive learning experience in one facet of business and serve as a basis for future career development.

Professional *specializations* are offered in:

- Accounting
- Finance
- Management Information Systems
- Marketing
- Organizational Management

The professional studies consist of 4 courses in one functional area beyond those courses required in the Business Core. The accounting option, however, requires 8 courses; this is intended to help you be better prepared to pass the Certified Public Accounting (CPA) examinations or to embark on an accounting career in industry. The professional option may be chosen upon matriculation or prior to starting major courses.

Professional *minors* are offered in:

- Accounting
- Business Administration
- Health Care Administration
- International Studies
- Risk Management and Insurance
- Other minors are offered by the School of Arts and Sciences.

Students who wish to do so have the option to pursue dual specializations or minors. In either case, permission of both Chairs must be obtained.

All students are required to take a writing emphasis course in their major discipline at the Junior/Senior level.

FREE ELECTIVES (0-4 courses)

You may choose to concentrate free electives in a particular field for a second major or minor, or you may use these to diversify your background or broaden your interests. Foundation courses may not be taken as free electives without permission from the Dean.

MBA BASIC CORE EQUIVALENTS

You can reduce the number of courses required to earn a Master's degree in Business Administration at La Salle by earning A's or B's in certain required undergraduate courses.

There is a body of undergraduate coursework, drawn primarily from the Business Curriculum, which can be used to waive up to 24 credits of foundation level coursework for the La Salle MBA degree. All of these undergraduate courses are required for all undergraduate business majors. By earning a minimum "B" grade in the undergraduate course(s), the corresponding MBA course requirement will be waived. These courses are as follows:

<u>UNDERGRADUATE COURSE</u>	<u>MBA COURSE</u>
MTH 116 Introduction to Calculus	Math Requirement
ACC 101 Principles of Accounting I ACC 102 Principles of Accounting II	ACC 502
ECN 150 Introductory Macroeconomics ECN 201 Introductory Microeconomics	ECN 505
FIN 300 Fundamentals of Financial Management FIN 303 Introduction to Financial Markets and Institutions	FIN 514
MGT 300 Production and Operations Management	MGT 511
QNT 213 Introduction to Business Statistics MTH 115 Finite Mathematics	QNT 509
MGT 201 Organizational Behavior	MGT 506
MKT 300 Principles of Marketing	MKT 518
CSC 151 Introduction to Computing Using Packages MIS 300 Management Information Systems	MIS 517

PROGRESS RECORD

• FOUNDATION (9 courses)

- | | |
|---|--|
| 1. Writing I ¹ _____ ENG 107 _____ | 6. Social Science _____ ECN 150 _____ |
| 2. Writing II _____ ENG 108 _____ | 7. History _____ HIS 150 _____ |
| 3. Literature _____ | 8. Science _____ |
| 4. Religion _____ | 9. Computer Science ² _____ CSC 151 _____ |
| 5. Philosophy _____ | |

¹May be waived by decision of the University before you begin course work; then additional elective is required.

²May be waived by challenge examination before you begin course work; then additional elective is required.

• ARTS CORE (7 courses)

1. Economics 201

(Plus 6 of the following 7 courses):

CORE 1A Religion and Philosophy

1. Philosophy _____
2. Religion _____
3. Philosophy or Religion _____

CORE 1B (sequence in any *one* of the following):

Fine Arts, History, Foreign Language, Literature

4. _____
5. _____
6. _____

CORE II

7. Social Science, Fine Arts, Foreign Language Literature, History, Literature, Communication, Education _____

• ADDITIONAL ARTS REQUIREMENTS (4 courses)

- | | |
|-------------|-------------------|
| 1. Math 115 | 3. Psychology 150 |
| 2. Math 116 | 4. Economics 305 |

• BUSINESS CORE (12 courses)³

- | | |
|------------------------------|---|
| 1. Accounting 101 | 7. Finance 300 |
| 2. Accounting 102 | 8. Finance 303 |
| 3. Quantitative Analysis 213 | 9. Production and Operations Management 300 |
| 4. Management 200 | 10. Management Information Systems 300 |
| 5. Law 202 | 11. Marketing 300 |
| 6. Management 201 | 12. Management 485 |

³300-and 400-level courses may not be taken until student has achieved junior standing.

• PROFESSIONAL STUDIES (4 or 8 courses)⁴

- | | |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

⁴The Accounting Option requires 8 courses in professional studies.

• ELECTIVES (4 for Finance, Management, Management Information Systems, and Marketing majors)

- | | |
|----------|----------|
| 1. _____ | 3. _____ |
| 2. _____ | 4. _____ |

MODEL ROSTERS**FRESHMAN YEAR****Fall**

Accounting 101
 Math 115
 English 107¹
 Foundation Course
 or Computer Science 151
 Foundation Course
 or Psychology 150

Spring

Accounting 102
 Math 116
 English 108
 Foundation Course
 or Psychology 150
 Foundation Course
 or Computer Science 151

ACCOUNTING MAJOR**SOPHOMORE YEAR****Fall**

Accounting 201
 Economics 150
 Quantitative Analysis 213
 Foundation Course
 Foundation Course

Spring

Accounting 202
 Economics 201
 Management 200
 Foundation Course
 Arts Core

JUNIOR YEAR**Fall**

Accounting 303
 Accounting 307
 Business Core
 Economics 305
 Arts Core

Spring

Accounting 304
 Accounting 380
 or Arts Core
 Business Core
 Business Core
 Business Core

SENIOR YEAR**Fall**

Accounting 405
 Accounting 380
 or Arts Core
 Business Core
 Business Core
 Arts Core

Spring

Accounting 406, 411,
 or 418
 Management 485
 Business Core
 Arts Core
 Arts Core

**FINANCE, MANAGEMENT,
MANAGEMENT INFORMATION SYSTEMS,
OR MARKETING MAJOR****SOPHOMORE YEAR****Fall**

Economics 150
 Quantitative Analysis 213
 Law 202
 Management 200
 Foundation Course

Spring

Economics 201
 Management 201
 Foundation Course
 Foundation Course
 Arts Core

JUNIOR YEAR**Fall**

Business Core
 Business Core
 Business Core
 Business Core
 Arts Core

Spring

Major Course
 Business Core
 Economics 305
 Arts Core
 Arts Core

SENIOR YEAR**Fall**

Major Course
 Major Course
 Management 485
 Arts Core
 Elective

Spring

Major Course
 Arts Core
 Elective
 Elective
 Elective

¹ Students who have ENG 107 waived will substitute a Sophomore Foundation course.

COOPERATIVE EDUCATION AND INTERNSHIPS

The co-op and internship programs are designed to give the student a hands-on work experience related to his or her major. Participation provides an opportunity to link the theory and practice of the discipline. Students generally participate during their junior or senior years. Students earn 3 credits for internships and co-ops.

Internship: Involves a part-time work experience for one semester in the student's major and is not paid. The student ordinarily carries a full academic schedule along with the internship. One or two internships may be taken. Course numbering is 360 and 460; see course descriptions for further detail.

Co-op: Involves a full-time work experience of up to six months. It is a paid position ordinarily related to the student's major. A student taking a co-op may graduate in four years by following the model roster below.

Freshman and Sophomore Years

Follow the same model roster as indicated on the previous page.

Summer Sessions after Freshman, Sophomore, and Junior Years

Students should plan to take up to four courses as needed during the summers.

Junior Year**Accounting Majors*****Fall Co-op Option:***

Fall	Spring
Co-op course	Accounting 304
Accounting 307E#	Accounting 303E#
	3 courses from Business or Arts Core

Spring Co-op Option:

Fall	Spring
Accounting 304E#	Co-op course
Accounting 307	Accounting 303E#
3 courses from Business or Arts Core	

Finance, Management, Management Information Systems, and Marketing Majors

Fall
5 courses from
Business and Arts
Core and elective courses

Spring
Co-op course *

Senior Year

Follow same model roster as indicated on previous page.

E Designates Evening course.

These courses can be taken during other semesters, if necessary, to accommodate your schedule. Check with your Chairperson or the Dean's Office.

* Co-op may be taken during the Senior year.

Key:

(F)—Offered in Fall term;

(S)—Offered in Spring term;

(F, S)—Course may be rostered in either Fall or Spring term. The year is indicated if the course is offered in alternate years. When a course number has been changed this year, the former number is given in parenthesis.

Courses listed in this section are subject to change through normal academic channels. New courses and changes in existing course work are initiated in the departments and approved by the curriculum committee consisting of faculty, student, and administrative representatives.

✍ identifies courses that have been designated as writing intensive.

ACCOUNTING

FACULTY

John F. Reardon, Ed.D. *Chair*
Associate Professors: Borkowski,
Hanratty, Kennedy, Markmann,
Reardon, Stickel

Assistant Professors: Brazina, Leauby,
Massimini, Ugras, Welsh, Zook
Lecturers: DeStephanis, Fitzgerald,
Guerin

Joseph G. Markmann Accounting
Alumni Endowed Chair: Scott E.
Stickel, Ph.D.

REQUIREMENTS

Required for Professional Option in
Accounting: 8 courses

- ACC 201, 202, 303, 304, 307,
380, 405 plus
- One of the following: ACC 406,
411, or 418

Required for Minor in Accounting:
6 courses

- ACC 101, 102, 201, 202, and any
2 accounting courses at the 300-
or 400-level except 350/450

Junior standing is a prerequisite for
300- and 400-level courses.

COURSE DESCRIPTIONS

ACC 101 (F) PRINCIPLES OF ACCOUNTING I

3 credits

Education in this course focuses on the fundamental principles of recording business transactions, including a study of the presentation and interpretation of the financial data of a business entity. Emphasis is placed on economic resources owned or controlled by a profit-driven enterprise.

ACC 102 (S) PRINCIPLES OF ACCOUNTING II

3 credits

The relationship between understanding accounting procedures and using accounting data effectively; the interrelationships between financial statements and the methods of accumulating data for these statements and how the particular accounting methods used influence business decisions. Problems include payroll analysis, alternative methods of obtaining capital, dividends, cash flow and the measurement and control of costs, including cost accounting systems, cost volume profit analysis, budgeting and standard costs. Prerequisite: ACC 101.

ACC 201 (F) ACCOUNTING THEORY I

3 credits

Theories and problems involved in proper recording of transactions and preparation of financial statements. Review of accounting cycle, discussion of financial statements, analysis of theory as applied to transactions affecting current assets, property plant and equipment and intangible assets, and their presentation on the balance sheet. Prerequisite: ACC 102.

ACC 202 (S) ACCOUNTING THEORY II

3 credits

Detailed presentation of theory as applied to current and long-term debt, long-term investments, capital stock and retained earnings; long-term liabilities including pensions, leases, and deferred taxes; correction of errors of prior periods; cash flow statement. Prerequisite: ACC 201.

ACC 303 (F) COST ACCOUNTING

3 credits

Basic principles applied to job cost and process cost systems. Topics include: purchasing and issuing of materials and maintenance of perpetual inventory records, control of labor, methods of distributing factory overhead expenses, evaluation of problems involved in shrinkage and idle time, forms used in job and process cost systems, and discussion of the place of cost accounting in modern enterprises. Prerequisite: ACC 102.

ACC 304 (S) AUDITING

3 credits

A practical presentation of modern audit practices, emphasizing the principles and objectives of an audit. Analysis of the audit basis, the best standards, objective reporting, the adoption of improved accounting standards, business controls, professional ethics, and legal liability. Prerequisite: ACC 202 (can be taken concurrently with ACC 202).

ACC 307 (F, S) INCOME TAX

3 credits

Study of federal tax code as applied to individuals, partnerships, and corporations including exclusions, inclusions, deductions, gains and losses. Review of fiduciary and estate and gift tax. Prerequisite: ACC 102.

Areas of Study

ACC 310 (F)

FINANCIAL STATEMENT ANALYSIS

3 credits

Comparative analyses by percentages, ratios, trends, graphic reports, and projections applicable to the balance sheet and income statement. Structure and meaning of accounts and peripheral statements such as application of funds and breakeven analysis. Prerequisite: ACC 102.

ACC 350, 450 (F, S, Summer)

COOPERATIVE EDUCATION

3 credits

Full-time paid employment in an area firm or government agency. Appropriate job-related learning assignments under faculty supervision. Consult with Department Chairperson. Prerequisite: ACC 102.

ACC 380 (F, S)

ACCOUNTING SEMINAR

3 credits

Research in selected topics of accounting theory. Prerequisites: ACC 202 or taken concurrently and FIN 300.

ACC 405 (F)

ADVANCED ACCOUNTING THEORY AND PROBLEMS I

3 credits

A study of the accounting concepts applicable to business expansion including branch accounting, mergers, acquisitions and consolidations from both the purchase and pooling of interests perspectives is analyzed. Emphasis is focused on consolidated statements including foreign operating transactions, conversion of foreign entity financial statements and multinational consolidated reports.

ACC 406 (S)

ADVANCED ACCOUNTING THEORY AND PROBLEMS II

3 credits

A study of special topics in accounting theory including partnerships, estate and trust,

bankruptcy, insolvency in concert with realization and liquidation, and fund accounting including governmental and hospital accounting. Prerequisites: ACC 202 and Senior standing.

ACC 411 (S)

ADVANCED COST ACCOUNTING

3 credits

Economic, industrial, and managerial aspects of cost accounting with emphasis on flexible budget as basis for cost control; analysis of variance and graphic charts. Study of estimated costs, standard costs, and distribution costs. Prerequisites: ACC 303 and Senior standing.

ACC 418 (S)

CORPORATE AND OTHER TAXATION

3 credits

Reviews federal revenue system; partnership; federal corporate income tax; federal, state, and federal gift taxes. State of Pennsylvania corporation taxes, City of Philadelphia taxes. Prerequisites: ACC 307 and Senior standing.

BUSINESS ADMINISTRATION MINOR

The minor in Business Administration provides Arts and Sciences majors with a broad exposure to all the different areas of business. It complements the Liberal Arts background with knowledge and skills that can be applied to careers in all types of organizations.

REQUIREMENTS

Required for Minor in Business Administration: 6 courses

- Economics 150, Accounting 101, Law 202, Management 201, Finance 303, and Marketing 300.

This minor is not available to students in the School of Business Administration.

FINANCE

FACULTY

Les Barenbaum, Ph.D., *Chair Professor*: Barenbaum
Associate Professors: Buch, Kelly, Rhoda, Schubert
Assistant Professors: Albert, McNichol, Toyne
Instructor: Ambrose

REQUIREMENTS

Required for Professional Option in Finance: 4 courses

- FIN 304, 306
- Two courses from among the following: FIN 313, 314, 401, 402, 403, 420, 470

Application may be made in the Spring semester of the Junior year to participate in the Finance Department Applied Research Project during the Senior year. See FIN 481.

Junior standing is a prerequisite for 300- and 400-level courses.

COURSE DESCRIPTIONS

FIN 300 (F, S)

FUNDAMENTALS OF FINANCIAL MANAGEMENT

3 credits

An introduction to the major concepts and techniques of financial management with an emphasis on time value of money, capital budgeting, financial statement analysis, financial forecasting, and short-term financial management. Prerequisites: ACC 102, MTH 115, MTH 116, QNT 213.

FIN 303 (F, S)
INTRODUCTION TO FINANCIAL MARKETS AND INSTITUTIONS
3 credits

An introduction to the basics of institutional finance. Financial instruments are generated and traded by participants in financial markets with financial intermediaries facilitating the process. Concepts, terminology, and current practices in each of these three areas are examined, along with the impact they have on the economy. Prerequisites: ACC 101 and ECN 150.

FIN 304 (F, S)
INTERMEDIATE CORPORATION FINANCE
3 credits

A continuation of FIN 300. Application of analytical tools and concepts to the business decision process. Case studies, a computer based financial simulation game, electronic spread sheets, and outside readings are used to bridge the gap between theory and practice. Prerequisite: FIN 300.

FIN 306 (F, S)
DOMESTIC AND INTERNATIONAL FINANCIAL MARKETS AND INSTRUMENTS
3 credits
Analysis of U.S. money and capital markets from a global perspective. Topics include domestic funds flows and security markets; international balance of payments, security markets and monetary systems; pricing of financial instruments; interest and exchange rate determination; financial derivatives; domestic and international risk analysis. Prerequisite: FIN 303.

FIN 313 (F)
PENSION PLANNING
3 credits
An examination of private pension plans, including historical background, regulatory environment, benefits and costs. Topics include: costs computation methods, benefits formulae, inflation impact, plan membership

profile, accounting and tax considerations, and management of fund assets, including portfolio considerations. Profit sharing plans and individual retirement plans also covered. Same as RMI 313. Prerequisite: FIN 300.

FIN 314 (F)
RISK MANAGEMENT
3 credits
Designed to acquaint the student with the nature of risk management and the role of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment. Historical and forecast financial statements are scrutinized for the purpose of risk identification. Same as RMI 314. Prerequisite: FIN 300.

FIN 350, 450 (F, S, Summer)
COOPERATIVE EDUCATION
3 credits
Full-time paid employment in an area firm or government agency. Appropriate job-related learning assignments under faculty supervision. Consult Department Chairperson. Prerequisite: FIN 300 or 303 or permission of Chairperson.

FIN 360, 460 (F, S)
INTERNSHIP IN FINANCE
3 credits
Practical experience in Financial/Insurance setting. Appropriate job-related learning assignments under faculty supervision. Consult Department Chairperson. Prerequisite: FIN 300 or 303 or permission of Chairperson.

FIN 401 (F)
INVESTMENT ANALYSIS
3 credits
Analytical techniques are used to investigate market efficiency and portfolio selection. Analysis of the bond market and stock market. Prerequisites: FIN 300 and 303.

FIN 402 (S)
SPECULATIVE MARKETS AND PORTFOLIO ANALYSIS
3 credits
The study of strategies involving the analysis and management of capital market securities, futures, and options. Prerequisite: FIN 306 or 401.

FIN 403 (F, S)
INTERNATIONAL FINANCE
3 credits
The study of multinational business practice, direct foreign investment, and managerial challenges in operating abroad. Foreign exchange markets and exchange determination; international banking and balance of payments issues. Prerequisite: FIN 303.

FIN 420 (S)
FINANCIAL MANAGEMENT OF THE INSURANCE FIRM
3 credits
A functional course emphasizing the interrelationships among underwriting, investment, regulation, and other aspects of insurance company and insurance agency operations. Spreadsheets are used to demonstrate effective financial management of the insurance firm. Same as RMI 420. Prerequisite: FIN 300.

FIN 470 (S)
SELECTED TOPICS IN FINANCE
3 credits
Selected topics in finance studied in-depth under the direction of faculty. Prerequisite: Senior standing.

FIN 481, 482 (F, S)
APPLIED RESEARCH PROJECT
3-6 credits
Students work one-on-one with faculty members on a year-long applied research topic. A monograph of student papers is published each year. Three of the six credits earned count towards the Finance major. Consult Department Chairperson.

Areas of Study

HEALTH CARE ADMINISTRATION MINOR

FACULTY

Directed by: Anne Walsh, D.S.W.,
M.S.W., M.B.A., Accounting
Department
Assistant Professor: Walsh
Lecturers: Powell,
Thompson-Brauman

REQUIREMENTS

Required for Financial
Management Option: 6 courses

- HCA 370, 371, 461 and ACC 303.
- Two courses from approved list.

(Financial Management Option is
available only to Business majors
due to course prerequisites.)

Required for Generalist Option: 6
courses

- HCA 370, 371, 459, 460
- Two courses from approved list.

Approved list: PHL 223, PSY 215,
REL 323, SOC 309, RMI 311, ACC
101, LAW 300, QNT 213.

Junior standing is a prerequisite for
300- and 400-level courses.

COURSE DESCRIPTIONS

HCA 370 (F, S) INTRODUCTION TO HEALTH CARE ORGANIZATION AND MANAGEMENT

3 credits

Analyzes the organization and
administration of the health care
system in relation to regulatory,
technological, and financial
variables affecting their operation.
Managerial tasks of planning,
controlling, motivating, and
organizing applied to the
management of health care
institutions.

HCA 371 (S) LEGAL ASPECTS OF HEALTH CARE DELIVERY

3 credits

Provides a fundamental orientation
to the field of health care law with
specific emphasis upon the duties,
authority, and personal liability of
the administrator in relation to the
governing board, staff, and patients.
Legislation and current regulations
affecting the administration and
delivery of services in health care
institutions examined in
conjunction with the legal and
ethical rights of patients.

HCA 459 (F) HEALTH CARE PLANNING AND POLICY ANALYSIS

3 credits

Comparative analysis of
international health care policies
with specific emphasis upon the
socio-economic, political,
demographic, and epidemiological
variables which influence the policy
making process in industrialized
and developing nations. Planning
methodologies using a strategic
planning framework are also
extensively applied in the analysis of
institutional policy formulation.
Prerequisite: HCA 370 (or taken
concurrently).

HCA 460 (S) INTERNSHIP IN HEALTH CARE ADMINISTRATION

3 credits

Systems analysis of the various
organizational factors influencing
institutional policy formulation and
managerial decision-making. Role
and relationship of the governing
board, medical/professional/non-
professional staff and administrator
discussed in relation to their impact
upon institutional policies.
Internship and seminar are integral
components of this course.
Prerequisite: HCA 459.

HCA 461 (S) INTERNSHIP IN HEALTH CARE FINANCIAL MANAGEMENT

3 credits

Theoretical principles of health
care financial management applied
in a supervised internship in a
health care institution. Class and
internship experience are integral
components of this course.
Prerequisite: ACC 303.

INTERNATIONAL STUDIES MINOR

Directed by: Joshua Buch, Ph.D.,
Finance Department
Designated as a minor available to
all students regardless of major.

REQUIREMENTS

Required: 6 Courses
Many of the courses listed below
may also fulfill Core I or Core II
requirements.

Any 3 courses from the following:

- Core IA:
- PHL 305, REL 240, 341, 344
- Core IB:
- All foreign language and foreign literature courses approved for Core I (See Foreign Languages and Literatures); ENG 312; HIS 202, 203, 302, 303
- Core II:
- All foreign language and foreign literature courses approved for Core II.
- ECN 330, 331
- HIS 307, 308, 325, 328, 344, 346, 348, 370, 452, 458, 470
- POL 230, 231, 233, 330, 331, 332, 333, 334
- SOC 257, 258, 263
- Additional courses (can also satisfy the first group of the three course requirement):
- ECN 361, 412
- ENG 312
- HIS 340, 345, 440
- REL 340

Any 3 courses from the following:

- ECN 330 or 331
- POL 240 or 341
- MGT 381
- FIN 403
- MKT 403

LAW

Pre-Law Advisors: David Culp,
Gerard Downey

FACULTY

Business-Law Program
Assistant Professors: Cogan, Culp
Lecturers: Gembala, Glancy, Halpin,
Shuman, Siegel

REQUIREMENTS

Law courses may be taken as
electives. LAW 202 is required of all
business administration students.
While there is no pre-law major,
certain of these courses may be
recommended for pre-law students
by the Coordinator.

Junior standing is a prerequisite for
all 300- and 400-level courses.

COURSE DESCRIPTIONS

LAW 202 (F, S)
**LEGAL ENVIRONMENT OF
BUSINESS**
3 credits
A study of the American legal
system within which business
operates, exploring how courts
decide cases and the values that
play a role in such adjudication.
The nature, formation, and
application of law to individuals and
business. The development of the
law, with emphasis on the
Constitution, personal and business
torts, products liability and
consumerism, the employment
relationship, discrimination,
international legal perspectives, and
business and legal ethics.

LAW 300 (F, S)
**APPROACHES TO THE LAW OF
CONTRACTS**
3 credits
The study of both the common law
approach to contracts, which
governs real estate transactions,
service oriented contracts and all

non-sale contracts, leases, licenses,
etc., and the Uniform Commercial
Code approach, which deals
exclusively with contracts for the
sale of goods.

LAW 301 (S)
**LAW OF AGENCY,
PARTNERSHIPS, AND
CORPORATIONS**
3 credits
Common law and statutes relating
to the creation, operation, and
termination of agencies,
partnerships, and corporations.
Emphasis on the Common Law of
Agency, the Uniform Partnership
Act, and the Business Corporation
Law of Pennsylvania.

LAW 401 (F)
LAW OF REAL ESTATE
3 credits
Common law and statutes of court
process which the real estate
salesperson and broker encounter
daily, including the legal principles
applicable to the listing contract,
the agreement of sale, mortgages,
deeds, leases, adverse possession,
easements, licenses, proving and
recording title. This course has
been accepted by the Pennsylvania
Real Estate Commission as fulfilling
the course requirement for a
salesperson's license.

LAW 402 (F)
**LAW OF NEGOTIABLE
INSTRUMENTS**
3 credits
Application of the common law of
the Uniform Commercial Code to
checks, promissory notes, and bills
of exchange. The use of
commercial paper in security
transactions and in the creation of
credit. The laws of principal and
surety, and insurer and insured as
related to the use of commercial
paper.

MANAGEMENT

FACULTY

Madjid Tavana, M.B.A., P.M.I.S.
Chair

Professors: Joglekar, Miller, Seltzer

Associate Professors: Smither, Troxell,
Van Buskirk

Assistant Professors: Bohl, Chung,

Gauss, Kruger, Lee, Meisel,

Rappaport, Szabat, Tavana

Lecturers: Halpin, Mudrick,

Sackheim

There are two majors in the Management Department: Management Information Systems (MIS) and Organizational Management (MGT). The choice of major should depend on career objectives and personal interests. If there are questions about the majors, the student should consult with the Department Chair or a departmental advisor.

MANAGEMENT INFORMATION SYSTEMS

REQUIREMENTS

Required for professional option in Management Information Systems:
4 courses.

- MIS 385 and MIS 410
- Choose two of the following: MIS 401, 405, 411, CSC 350

Junior standing is a prerequisite for 300- and 400-level courses.

COURSE DESCRIPTIONS

MIS 300 (F, S)
MANAGEMENT INFORMATION SYSTEMS
3 credits

This course provides the background necessary to make decisions about computer-based information systems and to be an

"end-user." The course focuses on the management of information systems within various organizational settings. Topics include: Information Systems in Organizations, Computer Hardware, Computer Software, Telecommunications, Database Management Systems, Transactional Processing and Management Information Systems, Decision Support Systems, Expert Systems, Systems Analysis and Design, Systems Development and Implementation, End-User Computing, Information Resources Management, and Emerging Technologies and Issues in Management Information System. Prerequisites: CSC 151 and MGT 201.

MIS 385 (S)
DECISION SUPPORT AND EXPERT SYSTEMS
3 credits

This course is about the manager's responsibilities for decision making in the Information Age using Decision Support Systems (DSS) and Expert Systems (ES). DSS topics include: Data Management, Modeling and Model Management, User Interface, Executive and Organizational Systems, Group Decision Support Systems (GDSS), and DSS Building Process and Tools. ES topics include: Applied Artificial Intelligence, Knowledge Acquisition and Validation, Knowledge Representation, Inferencing and ES Building Process and Tools. Students are required to apply DSS and ES Software Packages in a hands-on environment. Prerequisite: MIS 300.

MIS 401 (F)
BUSINESS APPLICATIONS PROGRAMMING AND SOFTWARE
3 credits

This course focuses on business problem solving using various programming languages and software tools. Emphasis is placed on identifying the capabilities and limitations of the languages and tools in solving typical business

problems. Students will learn skills and techniques to solve such problems through a series of steps which involve understanding of a problem, formal problem definition, methods of designing and graphically representing the solution processes, and programming specifications. The course also focuses on the successful documentation of solutions and effective solution defense. Procedural languages such as BASIC, COBOL and C, as well as declarative languages like C++ and SMALLTALK, will be introduced. Prerequisite: MIS 300

MIS 405 (F)
INFORMATION TECHNOLOGY
3 credits

This course imparts a basis of understanding that will serve students who enter an environment under rapid change through such developments as Microcomputer-Based Work Stations, Digital Voice Communications, Local Area Networks, Computer Load Sharing, Decentralized Transaction Processing, Distributed Databases and other evolving technologies. Prerequisite: MIS 300.

MIS 410 (F)
INFORMATION SYSTEMS ANALYSIS AND DESIGN
3 credits

Complex business systems and organizations are examined, with the goal of discovering their structure and information flow. Tools such as the Entity-Relationship Diagram, Data Structure Diagram, Data Flow Diagram, Data Dictionary, and Process Specifications are used to develop Systems Specifications. Systems Design topics such as User Interface, Design Alternatives, Prototyping, Input, Output, and File Design are discussed in detail. Prerequisite: MIS 300.

MIS 411 (S)
SMALL BUSINESS SYSTEMS
DEVELOPMENT

3 credits

Intended as a project course in which students are equipped with the knowledge and skills necessary to develop and implement information systems for small businesses. The course covers transactional processing, management reporting, the need to transfer data among multiple application files, and application software integration programs. Development and implementation of multiple-application packages, such as integrated accounting programs and financial reporting systems are examined. Multiple applications in these packages include Order Processing, Invoicing, Accounts Receivable, Inventory Control, Credit Monitoring and Reporting, Purchasing, Accounts Payable, Payroll, General Ledger, and Financial Statements. Prerequisite: MIS 300.

MIS 371 (F, S)
SPECIAL TOPICS IN
MANAGEMENT INFORMATION
SYSTEMS

3 credits

Designed to address contemporary issues and interests in Management Information Systems. Such topics as Office Automation, Information Systems Evaluation, Information Resources Management, and User Interfaces will be offered in various semesters. Prerequisite: varies with topics.

MIS 350, 450 (F,S)
COOPERATIVE EDUCATION

3 credits

Full-time paid employment in an area firm or government agency. Appropriated job-related learning assignments under faculty supervision. Consult Department Chairperson.

MIS 360, 460 (F, S)
INTERNSHIP IN MANAGEMENT
INFORMATION SYSTEMS

3 credits

Practical experience in area company or organizational setting. Appropriate job-related learning assignment under faculty supervision. Consult Department Chairperson.

ORGANIZATIONAL
MANAGEMENT

REQUIREMENTS

Required for Professional Option in Organizational Management: 4 courses.

- MGT 302 and MGT 480
- Choose two of the following:
MGT 307, 352, 363, 364, 365,
366, 371 (Special Topics), 381,
404

Junior standing is a prerequisite for 300- and 400-level courses.

COURSE DESCRIPTIONS

MGT 200 (F, S)
PRESENTATION SKILLS FOR
BUSINESS

3 credits

Focuses on the skills needed to link oral communication with the ability to work effectively in the current organizational environment. This course is based on the understanding that content and effective presentation of material are equally important in the understanding of communication. Active participation through oral presentations on current business topics are required. Students will make use of computer-based presentation technology.

MGT 201 (F, S)
ORGANIZATIONAL BEHAVIOR

3 credits

Consideration of the key issues of human behavior at work. Topics include: leadership, motivation, communication, group dynamics, organizational structure, and other topics relating to management of organizations. Throughout the course emphasis will be placed on contemporary issues in management, such as business ethics, workplace diversity, and managing in an international context. Current readings, cases, and experiential learning.

Areas of Study

MGT 300 (F, S)
PRODUCTION AND OPERATIONS MANAGEMENT
3 credits
Survey of basic concepts of production and operations management in manufacturing as well as service industries. Topics include decision theory, linear programming, forecasting, waiting line, simulation, capacity planning, location planning and transportation, layout and process design, inventory management, scheduling and project management, and emerging issues in production and operations management. Use of management science software to analyze case studies. Prerequisites: MTH 115 and 116, QNT 213, Junior standing.

MGT 302 (F, S)
HUMAN RESOURCE MANAGEMENT
3 credits
Designed to train students to analyze existing human resource programs and to adapt and develop procedures and methods which will ensure effective human resource management (HRM), equal employment opportunity (EEO), job analysis, recruiting, selection, training, performance appraisal, compensation, and labor relations. The course strongly emphasizes issues associated with international HRM. Prerequisite: MGT 201.

MGT 307
ORGANIZATIONAL THEORY
3 credits
Develops an understanding of the interaction of organizational structure and processes. Examines relationship of internal and external environments. Studies organizational design and utilizes current theories of organizational behavior as practical tools in analyzing specific organizations. Prerequisite: MGT 201.

MGT 350, 450 (F, S)
COOPERATIVE EDUCATION
3 credits
Full-time paid employment in an area firm or government agency. Appropriate job-related learning assignments under faculty supervision. Prerequisite: MGT 301.

MGT 352
INTERPERSONAL COMMUNICATION
3 credits
An examination of the process of communication in personal and organizational settings. Focus on the individual's styles and patterns of communicating, verbal and nonverbal modes, self-image, listening, perception, and barriers to effective communication. Emphasizes building communication skills through active participation in experiences and discussions in class. Limited enrollment. Prerequisite: MGT 200.

MGT 360, 460 (F, S)
INTERNSHIP IN ORGANIZATIONAL MANAGEMENT
3 credits
Practical experience in an organizational setting. Study and evaluation of an organization's functioning. Appropriate job-related learning assignments under faculty supervision. Consult Department Chairperson. Prerequisite: MGT 201.

MGT 363 (F)
EMPLOYMENT LAW
3 credits
Designed to educate future managers as to the options available in dealing with the individual in the work place. Topics: labor law; arbitration; fair employment practices; and health and safety in the work place. Cases, paper and legal research problems. Prerequisite: MGT 201.

MGT 364
COMPENSATION ANALYSIS
3 credits
Study of the compensation policies and practices. Emphasis on job evaluation, rate ranges, incentive plans, and benefit programs. Federal and state laws examined. Field work and legislative research report required. Prerequisite: MGT 201.

MGT 365
HUMAN RESOURCE STAFFING AND DEVELOPMENT
3 credits
The study of employee hiring procedures and the training of personnel in organizations. Examination of recruiting, selecting and interviewing, and orienting new employees. Emphasis on training and career development programs applied to specific employee groups. Prerequisite: MGT 201.


MGT 366 (S)
DISPUTE RESOLUTION
3 credits
Dispute resolution and conflict management describe a set of theories, principles, and techniques which build upon skills of analysis and communication. Managers negotiate every day to resolve conflicts between individuals and groups both within and outside the organization. Readings, exercises, and cases are utilized to study the complex human activity that is dispute resolution. Prerequisite: MGT 201.

MGT 381 (S)
INTERNATIONAL MANAGEMENT
3 credits
Study of the conduct of business in foreign countries from a managerial point of view. Topics pertaining to the multinational industrial and commercial activities of American enterprises presented and discussed. The United States' involvements and relations with foreign organizations such as OPEC, OCED, and ECM analyzed. United Nations regulations,

commitments, and protections examined. Prerequisite: MGT 201.

MGT 404 (F)
**ENTREPRENEURSHIP AND
SMALL BUSINESS MANAGEMENT**
3 credits

The actual art and practice of managing a small enterprise. Concepts and methods for decision making and being competitive. Actual cases with live situations and outside speakers from all areas—business, government, and organized labor—impinging on the small entrepreneur today. Prerequisite: Business Core.

MGT 480 (F, S) 
SEMINAR IN MANAGEMENT
3 credits
Comprehensive course with emphasis on current, positive management concepts and practice. Class discussion and analysis of selected topics. Focuses on integration of management studies. Comprehensive reports and presentations required. Prerequisites: MGT 201 and Senior standing.

MGT 485 (F, S)
BUSINESS POLICY
3 credits
Intended as a capstone course in business administration. Integration of backgrounds acquired from accounting, finance, production, personnel, and marketing, strategic planning and implementation; analysis and discussion of actual or simulated situations. Prerequisite: Senior standing.

QUANTITATIVE ANALYSIS

The Management Department coordinates the courses in this area.

Junior standing is a prerequisite for 300- and 400-level courses.

COURSE DESCRIPTIONS

QNT 213 (F, S)
**INTRODUCTION TO BUSINESS
STATISTICS**
3 credits
Basic statistical methods used in the analysis of business and economic decision problems. Emphasis is on valid applicability of techniques, sound interpretation of statistical results, as well as successful execution of statistical methods. Topics include: descriptive statistics, both graphical and numerical; probability and probability distributions; sampling distributions; statistical estimation and hypothesis testing; chi-square analysis; and simple and multiple regression and correlation. Students will be introduced to a microcomputer statistical software package. Prerequisites: MTH 115, 116, CSC 151.

QNT 214 (S)
**INTERMEDIATE BUSINESS
STATISTICS**
3 credits
Intermediate statistical methods used in the analysis of business decisions and problems. Emphasis is on valid applicability of techniques, sound interpretation of statistical results as well as successful execution of the statistical methods. Topics include: two-sample testing; analysis of variance; multiple regression extensions; and time series analysis. Students will work extensively with a statistical software package. Prerequisite: QNT 213.

QNT 370
**SPECIAL TOPICS IN
APPLICATION OF STATISTICS**
3 credits
Selected topics in forecasting; regression of time series data, classical analysis of time series data such as the decomposition method, exponential smoothing, and Box-Jenkins methods. Prerequisite: varies with topics.

MARKETING

FACULTY

Sharon Javie, Ph.D., *Chair*
Associate Professor: Reifsteck
Assistant Professors: Bean, Javie, Jones, Liebman, Talaga, Wong
Lecturer: Willig

REQUIREMENTS

Required for Professional Option in Marketing: 4 Courses.

- MKT 301, 401 and 402
- Choose one of the following:
MKT 302, 304, 371 or 403.

Junior standing is a prerequisite for 300- and 400-level courses.

COURSE DESCRIPTIONS

MKT 300 (F, S)
PRINCIPLES OF MARKETING
3 credits
An overview of marketing concepts and principles applicable to business and other organizations. Factors influencing the marketing environment and buyer behavior; market segmentation and targeting. Product development, pricing, promotion and distribution to satisfy the needs of selected target markets.

MKT 301 (F, S)
PERSONAL SELLING
3 credits
Examines the importance and practice of individual selling in the

Areas of Study

economy. Focuses on types of buyers, buyer behavior, steps in the selling process, sales presentations, and ethics in selling. Prerequisite: MKT 300.

MKT 302
ADVERTISING AND
PROMOTIONAL MANAGEMENT
3 credits

Focuses on the economic and social aspects of non-personal promotion, including the important methods and techniques of research which form the basis of any promotional campaign. Includes a practical treatment of sales promotion programs, advertising copy, layout and media; measurement of promotional effectiveness; and advertising departments and agencies. Prerequisite: MKT 300.

MKT 303
SALES MANAGEMENT
3 credits

The activities of a sales manager in directing and controlling a sales force; recruiting, selecting, training, compensating, motivating, and supervising sales personnel; establishment of sales territories, quotas, and budgets. Prerequisite: MKT 300.

MKT 304
BUSINESS TO BUSINESS
MARKETING
3 credits

A study of business activities involved in the marketing of products and services to organizations (i.e., commercial enterprises, non-profit institutions, government agencies, and resellers). Emphasis also is on organizational and interfunctional interaction, buyer behavior, global interdependence and competition, and negotiation. Prerequisite: MKT 300.

MKT 350, 450 (F, S)
COOPERATIVE EDUCATION
3 credits
Full-time paid employment in an area firm or government agency. Appropriate job-related learning

assignments under faculty supervision. See Department Chair for further information. Prerequisite: MKT 300.

MKT 360 460 (F, S)
INTERNSHIP IN MARKETING
3 credits

A study of an organization's marketing program conducted while the student is serving part-time as a trainee. Carried out under faculty supervision. See Department Chair for further information. Prerequisites: MKT 300 and at least one upper level marketing course.

A student may elect to take a second marketing internship for 3 additional credits in subsequent semesters.

MKT 371
CONSUMER BEHAVIOR
3 credits

A study of the consumer with applications for marketing strategy development. Looks at the cultural, social, and psychological influences on consumers and the consumer decision process. Prerequisite: MKT 300.

MKT 372
RETAILING
3 credits

Application of marketing concepts and principles to the management of retail institutions. Major topics include choice of store location, merchandise planning and management, retail pricing and promotion, and the impact of a changing environment on retailing. Prerequisite: MKT 300.

MKT 373
PRINCIPLES OF PURCHASING
3 credits
A study of purchasing principles applicable to industrial firms, wholesalers, retailers, and government procurement agencies. Relationship between marketing and purchasing functions. Legal considerations of contracts and agency. The art of negotiation;

cost/price analysis as it affects buyer and seller. Prerequisite: MKT 300.

MKT 401 (F, S)
MARKETING RESEARCH
3 credits

The use of scientific method in the solution of specific marketing problems and in the conduct of general market research studies: methods of marketing research, gathering data, tabulation and analysis, interpretation of results, and report presentation. Prerequisites: QNT 213, MKT 300, MTH 116.

MKT 402 (S)
MARKETING MANAGEMENT
3 credits

As the capstone course for marketing majors, integrates all other marketing courses. Includes a study of actual business cases employing a managerial approach to marketing. Emphasizes decision making and strategy development in marketing under rapidly changing market conditions. Prerequisites: All other required marketing courses or permission of the instructor.

MKT 403
INTERNATIONAL MARKETING
3 credits
A managerial view of the marketing function from a global perspective. Describes and explores the complexities, problems, and opportunities of world-wide marketing. Prerequisite: MKT 300.

MKT 405
MARKETING CHANNELS
3 credits
The marketing approach to physical distribution focusing on transportation, warehousing, channels, physical distribution systems, geography, material handling and planning and their effect on successful marketing. Prerequisite: MKT 300.

RISK MANAGEMENT AND INSURANCE MINOR

FACULTY

Directed by: Kathleen S. McNichol,
M.B.A., C.P.C.U., Finance
Department
Associate Professor: J. Kelly
Assistant Professor: McNichol
Instructor: Ambrose

REQUIREMENTS

Six courses are required for the Minor in Risk Management and Insurance, and must be taken from the following two groups:

- RMI 301, 302, 312, 313, 314, 420.
- ACC 101; FIN 300; LAW 202; QNT 213.

Business majors are required to take 4 RMI courses; Non-business majors are required to take at least 3 RMI courses. No student may take more than 4 RMI courses. Junior standing is a prerequisite for 300- and 400-level courses.

COURSE DESCRIPTIONS

RMI 301 (F) FUNDAMENTALS OF RISK AND INSURANCE

3 credits

Introduction to the underlying principles, practices, and the legal aspects of insurance; survey of personal lines such as auto, homeowners, life, health; commercial lines coverages, including fire, marine, fidelity and corporate surety, workers' compensation, business interruption.

RMI 302 (S) INTRODUCTION TO LIFE AND HEALTH INSURANCE

3 credits

A comprehensive overview of the fundamental theoretical and practical issues in life and health insurance. The need for life and health insurance and their respective role in handling risk is covered. Traditional and non-traditional life insurance and annuity products are analyzed. The legal characteristics and policy provisions of the insurance contract as well as life insurance mathematics are examined. Business uses of life insurance, including group insurance, is studied. Health insurance is broadly covered with discussions of individual, group, and alternative health care plans and proposals. The life and health insurance company is examined with emphasis on the evaluation of its financial strength and the regulatory environment in which it operates.

RMI 312 (S) COMMERCIAL PROPERTY AND LIABILITY CONTRACTS

3 credits

Detailed examination of the major commercial policies and forms. Included are business interruption and extra expense coverage, ocean and inland marine, crime, liability, auto, and workers' compensation policies along with bonding. Prerequisite: RMI 301.

RMI 313 (F) PENSION PLANNING

3 credits

An examination of private pension plans, including historical background, regulatory environment, benefits and costs. Topics include costs computation methods, benefits formulae, inflation impact, plan membership profile, accounting and tax considerations, and management of fund assets including portfolio considerations. Profit sharing plans and individual retirement plans are also covered. Same as Finance 313. Prerequisites: RMI 301 or 302 and FIN

300, or permission of Program Coordinator.

RMI 314 (F) RISK MANAGEMENT

3 credits

Designed to acquaint the student with the nature of risk management and the role of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment. Historical and forecast financial statements are scrutinized for the purpose of risk identification. Same as FIN 314. Prerequisites: RMI 301 and FIN 300, or permission of Program Coordinator.

RMI 420 (S) FINANCIAL MANAGEMENT OF THE INSURANCE FIRM

3 credits

A functional course emphasizing the interrelationships among underwriting, investment, regulation, and other aspects of insurance company. Spreadsheets are used to demonstrate effective financial management of the insurance firm. Same as FIN 420. Prerequisites: RMI 301 or 302 and FIN 300, or permission of Program Coordinator.

Nursing



La Salle's Bachelor of Science in Nursing program prepares its graduates to qualify for the state board nursing examination to become registered professional nurses and to practice as members of the nursing profession. The four-year, full-time, 120-credit program leading to the B.S.N. provides the student with a strong foundation in the liberal arts and biological sciences in preparation for 13 nursing major courses, eight of which include clinical practice components in a variety of health care settings. The goal of the B.S.N. program is to enable the graduate to provide professional nursing care which includes health promotion and maintenance, illness care, restoration, rehabilitation, and health counseling and education based on knowledge derived from nursing theory and research.

La Salle's B.S.N. program provides the opportunity to refine critical thinking skills, to strengthen one's self concept as a person, to develop as a member of the nursing profession, to set a course for self-directed learning and independent action, and to prepare for graduate study in nursing.

The program is designed for students entering from high school who have selected nursing as a career, transfer students, adult students who are seeking a second undergraduate degree or career change, and students who have completed liberal arts/science pre-nursing requirements.

ACCREDITATION

The La Salle University B.S.N. program will seek initial accreditation from the National League for Nursing after the graduation of its first class in 1995.

CLINICAL EXPERIENCES

La Salle's School of Nursing has established strong ties with a number of hospitals and other health care facilities in the Philadelphia area. Clinical experiences associated with course work will be at institutions such as Albert Einstein Medical Center, Belmont Psychiatric Institute, Fox Chase Cancer Center, Medical College Hospitals, Moss Rehabilitation Center, and St. Christopher's Hospital for Children. In addition, students will have the opportunity to practice at the La Salle University Neighborhood Nursing Center, a nurse-managed public health and primary care facility.

Three of the health care institutions and the Neighborhood Nursing Center are within walking distance of La Salle's campus. Others can be reached by public transportation if necessary.

THE MENTOR PROGRAM

As early as the spring semester of the Freshman year, all nursing majors can be assigned a mentor who is a practicing registered nurse. The student can spend time with the mentor in the practice setting, observing and discussing the nature of professional nursing practice until completion of the program.

ADMISSION TO THE NURSING MAJOR

Before beginning nursing major courses—which are concentrated in the junior and senior years—the student must have earned at least 60 credits in the liberal arts and sciences.

Nursing major courses consist of 50 credits. Students are strongly advised to take the nursing externship as their nursing elective during the pre-senior summer. Through this course, students will gain supervised practical experience in providing nursing care or outreach services.

MODEL ROSTER

FRESHMAN YEAR

Fall	Spring
Writing I	Writing II
Literature	Philosophy
Chemistry	Computer Science
Bio-Nutrition	Sociology
Psychology (Core II)	Psychology (Core II)

SOPHOMORE YEAR

Fall	Spring
Clinical Microbiology	History
Core Course (1B)	Core Course (1B)
Anatomy and Physiology I	Statistics
Religion	Anatomy and Physiology II
Core Course (1A)	

JUNIOR YEAR

Fall	Spring
Nursing 305	Nursing 309
Nursing 307	Nursing 311
Nursing 308	Nursing 312
Core Course (1B)	Core Course (1A)

Summer (pre-senior): Nursing 470 (strongly recommended nursing elective); nurse externship, international experience, or community outreach.

SENIOR YEAR

Fall	Spring
Nursing 405	Nursing 409
Nursing 407	Nursing 411
Nursing 410	Nursing 414
Core Course (1A)	Nursing Elective

PROGRESS RECORD

FOUNDATION 7-9 courses)

- | | | | |
|----------------------------------|----------------------------|--|---------------------------|
| 1. Writing I ¹ _____ | ENG 107 _____ | 6. Social Science _____ | SOC 150 _____ |
| 2. Writing II _____ | ENG 108 _____ | 7. History _____ | HIS 150 _____ |
| 3. Literature ² _____ | LIT 150 or ENG 150 _____ | 8. Science _____ | CHM 161 (4 credits) _____ |
| 4. Religion _____ | REL 151, 152, or 153 _____ | 9. Computer Science ³ _____ | CSC 151 or 152 _____ |
| 5. Philosophy _____ | PHL 151 or 152 _____ | | |

¹May be waived by decision of the University before you begin course work.²May be in English or in Foreign Language Literature in English translations.³May be waived by challenge examination before you begin course work.

CORE I (6 courses)

1A (3 courses)

Religion and Philosophy

1. REL _____
2. PHL _____
3. REL or PHL _____

1B (3 courses from any one of these disciplines)

Fine Arts	History
Foreign Languages	Literature

1. _____
2. _____
3. _____

CORE II

(2 courses from one discipline or from a combination of disciplines)⁴

Fine Arts	Literature	Foreign Languages ⁵
Social Science	History	

1. _____ PSY 205, 220, or 225
2. _____ PSY 210

⁴Also approved to fulfill Core II requirement: COM 202, 204, and 254; EDC 201 and 203.⁵Both courses must be in same foreign language.

MAJOR COURSES

- | | | | |
|----------|---------------------|-----------|------------------------------|
| 1. _____ | NUR 305 (5 credits) | 9. _____ | NUR 409 (4 credits) |
| 2. _____ | NUR 307 (5 credits) | 10. _____ | NUR 410 (2 credits) |
| 3. _____ | NUR 308 (3 credits) | 11. _____ | NUR 411 (5 credits) |
| 4. _____ | NUR 309 (5 credits) | 12. _____ | NUR 414 (3 credits) |
| 5. _____ | NUR 311 (5 credits) | 13. _____ | Nursing Elective (2 credits) |
| 6. _____ | NUR 312 (2 credits) | 14. _____ | |
| 7. _____ | NUR 405 (5 credits) | 15. _____ | |
| 8. _____ | NUR 407 (4 credits) | | |

ELECTIVES*

- | | | |
|----------|---------------------|-----------|
| 1. _____ | BIO 161 (4 credits) | 6. _____ |
| 2. _____ | BIO 162 (4 credits) | 7. _____ |
| 3. _____ | BIO 163 (4 credits) | 8. _____ |
| 4. _____ | BIO 165 (3 credits) | 9. _____ |
| 5. _____ | ECN 213 (3 credits) | 10. _____ |

*Because of State Board requirements, electives are controlled.

Key:

(F)—Offered in Fall term;

(S)—Offered in Spring term;

(F, S)—Course may be rostered in either Fall or Spring term.

The year is indicated if the course is offered in alternate years. When a course number has been changed this year, the former number is given in parenthesis. Courses approved for Foundation, Core I (3-course sequence) or Core II (2-course option) are so indicated.

Courses listed in this section are subject to change through normal academic channels. New courses and changes in existing course work are initiated in the departments and approved by the curriculum committee consisting of faculty, student, and administrative representatives.

✎ identifies courses that have been designated as writing intensive.

FACULTY

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Dreher, Heinzer, Jones, Kinsey, Lauterbach, Tigar

Clinical Instructor: Ruane

COURSE DESCRIPTIONS**NUR 305****HEALTH ASSESSMENT AND PROMOTION I**

5 credits

The focus of this course is to develop a theoretical and clinical base necessary to assess healthy individuals across the lifespan. Em-

phasis is given to identifying the range of health states through health assessment, health promotion activities, and prevention of disease and interventions necessary to provide care to healthy individuals within the framework of *Healthy People 2000* objectives. Includes 2 hours of class, 6 hours of clinical, 3 hours of learning lab. Prerequisites: 60 credits in Arts and Sciences.

NUR 307**NURSING I: FOUNDATIONS OF PRACTICE**

5 credits

This course explores the conceptual and practical foundations of nursing as a practice discipline. Theory, learning laboratory, and clinical experiences in a variety of health care settings are provided. The course emphasizes direct care interventions that assist persons to improve health states. Includes 2 hours of class, 6 hours of clinical, 3 hours learning lab. Co-requisite: NUR 305.

NUR 308**NURSING RESEARCH**

3 credits

The research process and its relevance to nursing practice is explored. Students develop and present research proposals to investigate problems in client and nursing systems. Critique of research as a nurse consumer is emphasized. Co-requisite with NUR 305.

NUR 309**HEALTH ASSESSMENT AND PROMOTION II**

5 credits

A continuation of NUR 305; refines assessment and communication skills; emphasizes assessment and health promotion activities and application of nursing process with developing families. Includes 3 credits of class, 6 hours of clinical. Prerequisite: Nursing 307.

NUR 311**NURSING II: HEALTH MAINTENANCE AND RESTORATION (ADULT-ELDERLY)**

5 credits

This course focuses on the impact of chronic illness on adult and elderly individuals and their families. Physiological and psychosocial alterations are explored. Maintenance of health through the illness experience is emphasized with patients in secondary and tertiary settings and at home. Includes 3 credits of class, 6 hours of clinical. Co-requisite: NUR 309.

NUR 312**PHARMACOLOGY**

2 credits

This course explores pharmacodynamics, pharmacokinetics, drug actions and interactions, and environmental factors and safety precautions during medication administration. Special considerations are given to the effects of drugs on different age groups and to nursing's responsibilities in drug therapy.

NUR 405**NURSING III: HEALTH MAINTENANCE AND RESTORATION (CHILD AND ADOLESCENT)**

5 credits

This course focuses in the impact of acute and chronic illness on children and adolescent individuals and their families. Physiological and psychosocial alterations are explored. Maintenance of health through the illness experience is emphasized with patients in secondary and tertiary settings and at home. Includes 3 credits of class, 6 hours of clinical. Prerequisite: NUR 311.

Course Descriptions

NUR 407**NURSING IV: NURSING INDIVIDUALS AND FAMILIES IN STRESS****4 credits**

Theories and concepts of stress and coping are explored from physiological, cognitive-behavioral, cultural, psychosocial, and nursing perspectives. Within the framework of *Healthy People 2000*, clinical experiences focus on stress and coping by individuals, including nurses as practice professionals, groups and families dealing with problematic, health related situations with an emphasis on mental disorders. Includes 2 credits of class, 6 hours of clinical. Co-requisite: NUR 405.

NUR 409**NURSING V: HEALTH MAINTENANCE AND RESTORATION (ACUTE ADULT)****4 credits**

This course focuses on the impact of acute illness on adult and elderly individuals and their families. Physiological and psychosocial alterations are explored. Maintenance of health through the illness experience is emphasized with patients in secondary health care settings and at home. Includes 2 credits of class, 6 hours of clinical. Prerequisite: NUR 405.

NUR 410**NURSING ISSUES****2 credits**

Analyzes and debates positions on nursing and health care issues and the processes by which issues develop. Issues are analyzed from a historical, social, political, economic, ethical, and futuristic perspective. Prerequisite: NUR 311.

NUR 411**NURSING VI: PUBLIC HEALTH NURSING****5 credits**

This course introduces the student to population-based health care needs and strengths. Emphasis is placed on health promotion, primary disease prevention and protection for particular at-risk and high-risk population groups. Resources and health care strategies are identified. Neighborhood and community cohesiveness as well as relevant political, social, and health care actions are examined. In a variety of community settings, students will explore and apply nursing strategies that support personal and communal well-being. Includes 3 credits of class, 6 hours of clinical. Prerequisite: NUR 407.

NUR 414**NURSING MANAGEMENT AND LEADERSHIP****3 credits**

Analyzes nursing leadership and management from theoretical and practical perspectives. Leadership and management roles for nurses are explored. Theories, principles, and strategies are analyzed and applied in simulated cases. Emphasis is given to the promotion of assertive behavior in the professional role. For the generic student, this course culminates in a clinical immersion experience with intensive preceptored clinical practice. Co-requisite with NUR 409.

Nursing Electives

NUR 470**EXTERNSHIP****2 credits**

This course is offered in the pre-senior summer and gives the student a preceptored nursing practice experience in the form of an externship, an international practicum experience, or community outreach. Prerequisite: completion of Junior-year nursing courses.

NUR 474**WOMEN'S HEALTH CONCERNS****2 credits**

Explores contemporary women's health problems and concerns. Women's health issues are explored. Health risk identification, health promotion, health maintenance, and intervention alternatives are examined from a holistic perspective.

NUR 478**ETHICAL DILEMMAS IN NURSING PRACTICE****2 credits**

This course critically analyzes ethical dilemmas faced by nurses. Ethical theory is applied to the analysis of ethical dilemmas and to the identification of situational, social, and professional constraints.



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Academic Calendar 1994-95

Fall Semester

August 29-31	On-campus registration
September 7	Beginning of classes
September 13	Last day for change of roster
September 29	Last day for filing Pass/Fail Option
October 23	Academic Convocation
October 26	Spring semester pre-registration begins
October 31-Nov. 1	Mid-semester holidays
November 2	Mid-semester grades due
November 3	Last day for withdrawal from courses
November 23-25	Thanksgiving holidays
December 13	Classes end for Fall semester
December 14	Reading Day
December 15-21	Final examinations
December 22	Snowdate for Finals
January 3	Fall semester grades due

Spring Semester

January 10-11	On-campus registration
January 16	Martin Luther King Jr. Holiday
January 17	Beginning of classes
January 23	Last day for change of roster
February 6	Last day for filing Pass/Fail Option
March 6-10	Mid-semester holidays
March 7	Mid-semester grades due
March 16	Last day for withdrawal from courses
March 20	Fall semester pre-registration begins
April 13-17	Easter holidays
April 28	Classes end for Spring semester
May 1-5	Final examinations
May 8	Graduating Seniors' grades due
May 14	Commencement
May 15	Spring semester grades due

1994

AUGUST	S	M	T	W	T	F	S
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1995

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